

The  Complete  
**CHEMIST AND DRUGGIST**

RETAILER — WHOLESALER — MANUFACTURER

AUGUST 19, 1950



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# The CHEMIST AND DRUGGIST

for RETAILER—WHOLESALE—MANUFACTURER

AUGUST 19, 1950

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## NEWS OF THE WEEK

**Conference Accommodation.**—Intending visitors to the British Pharmaceutical Conference in Glasgow, September 4-9, who have not yet reserved accommodation, should apply for reservations to Thomas Cook & Son, Ltd., 124 St. Vincent, Glasgow, C.1, before August 24.

**Scottish Produced A.C.T.H.** — Small quantities of A.C.T.H. (adreno-corticotrophic hormone) are being produced for the Ministry of Health at the works of Orion Laboratories, Ltd., Scottish Industrial Estate, Newhouse, Lanarks. The end output is being passed to the Medical Research Council for allocation in clinical trials.

**Industrial Injuries Insurance.**—Notes of injury benefit available to those injured in industry have been prepared by the Industrial Division of the Ministry of National Insurance, 6 Carlton House Terrace, London S.W.1, "to assist those who are often called upon for advice," and for general distribution. Copies may be obtained from the Ministry on request.

**Conference on Dangerous Drugs.**—Seven of the main drug-manufacturing countries met in Geneva on August 8 to plan action against the increasing illegal use of opium and its by-products, heroin and morphine. Under the auspices of the United Nations Commission on Narcotic Drugs, the meeting was attended by France, Holland, Britain, Belgium, Italy, Switzerland and the United States. On August 14 a joint conference with representatives of the various opium-producing countries approved the creation of an international monopoly for opium with international inspection to control its use. Additional countries attending the conference were India, Iran, and Jugoslavia.

**Chloromycetin Plant for Britain.**—A contract has been signed between Parke, Davis & Co., Detroit, U.S.A., and the European Co-operation Administration, that will result in the erection of a plant at Hounslow, Middlesex, for the manufacture of Chloromycetin and other pharmaceutical products. The contract guarantees the convertibility into dollars of possible

returns on the company's investment of \$420,000 on the plant. The company will be able to convert up to a total of \$735,000 of its sterling receipts from its new investment (including the already mentioned investment of \$420,000) plus additional possible earnings up to \$315,000. Assets to be invested include cash, machinery and equipment. The new plant is expected to be in operation before the end of 1950.

**Catholic Chemists' Congress.**—At an International Congress of Catholic Chemists to be held in Rome in September, the operation of the National Health Service in Scotland is to be reviewed, and several papers describing it have already been translated into a number of languages.

**Fats for Sugar Confectionery.**—The allocation of fat for manufacturing chocolate and sugar confectionery has been increased from August 13 at the rate of 1,550 tons per year. The Ministry of Food will send manufacturers supplementary permit forms for the extra allowance as soon as possible.

**Search for Surgical-glove Lubricant.**—Tests now being carried out by Educational and Scientific Plastics, Ltd., 392A London Road, Croydon, Surrey, suggest that a corn-starch and magnesium-oxide mixture may provide a lubricant for surgical rubber gloves that is free from the known disadvantages of talc. Before a final conclusion can be arrived at several months must elapse. In the meantime the company invite information about any clinical tests that have taken place on rubber or thermoplastic gloves.

**London B.Pharm. Results.**—The following have passed the B.Pharm. examination, 1950, of the University of London for external students:—S. A. Amin, P. H. Bailey, J. R. H. Baker, E. D. Bradbury, C. P. Chappel, P. S. Cowley, R. Elder, J. E. Flower, J. R. Fowler, Dorothy E. A. Hall, N. D. Harris, W. F. Harte, G. July, Joan A. M. Leach, C. O. J. Miller, Freda M. Pearce, D. M. Riekie, E. L. Rosenberg, J. A. Vickers, R. C. Webb, W. J. Wright. The following internal students have passed (old regulations): K. V. Patel; (revised regulations), first class honours, D. B. Cowell, R. Fleming, K. Wibberley; second class honours, Jean G. Aswin, J. M. Beck, M. P. Earles, W. A. R. Matthews, J. C. Stanton, J. Walker; pass, Mary M. Evans, Veronica M. Goldie.

**"Any Questions" on American Packaging.**—To coincide with the publication in the autumn of a report on United States packaging practice, prepared by a specialist team on packaging headed by Mr. G. M. Ashwell (Packaging Advisor, Imperial Chemical Industries, Ltd.), who recently went to America under the auspices of the Anglo-American Council of Productivity, the entire team answer "Any Questions" at three open meetings of the Institute of Packaging, 55 Moorgate, London, E.C.2, in October. Admission to the meetings may be gained by any executive with a *bona fide* interest in packaging or production of his trade card. The meetings will be held as follows: At the Waldorf Hotel, Aldwych, W.C.2, at 6 p.m. on October 5: Southern area; at Houldsworth Hall, Deansgate, Manchester, at 2.30 p.m. on October 11: Northern area; at the Imperial Hotel, Birmingham, at 6 p.m. on October 16: Midlands area.

**Re-export Procedure Simplified.**—Simplification of the formalities attending the import of goods for re-export is announced by the Board of Trade. From August 14, importers of goods for re-export (i.e. on licences prefixed RE, REX, or REX) will, in most instances, be required only to notify the Import Licensing Branch when export has been completed, or whether re-export licences are required for similar goods (instead of rendering returns every three months showing the details of imports). Returns at six-monthly intervals will, however, be required for goods imported from Bolivia, Canada, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Japan, Korea, Liberia, Liechtenstein, Mexico, Nicaragua, Panama, Persia (Iran), Philippine Republic, Switzerland, the United States and Venezuela. Special arrangements made for a few specific commodities are not affected; nor are returns made to other departments or to the Bank of England. Where the six-monthly returns are required, they should be rendered on a new standard form (obtainable from the Import Licensing Branch). The changes apply both to future imports and to goods already imported. New importers from countries listed are being notified of the dates on which they should submit returns. Firms already submitting returns for imports from these countries should send their next return (on the new form) six months from the date of their last

## LOCAL NEWS

**Lunch-time Address at Works.** — Air-  
e-Marshals K. B. Lloyd (liaison representative for the National Thanksgiving Fund) delivered a lunch-hour address to employees of Johnson & Johnson (Great Britain), Ltd., Airebank Mills, Gargrave, Skipton, on August 16.

**North Devon Lecture.** — Recent outstanding achievements in medical and nical research were described by Mr. R. G. Chamings, B.Pharm., Ph.C. (Ciba Laboratories, Ltd.), at Barnstaple, recently, the newly formed North Devon Pharmaceutical Association. Mr. L. D. Knight (airman) presided. A number of local tors were present. In the course of his ress, Mr. Chamings mentioned groups vitamins, sulphonamides, antibiotics, allergic drugs, and antirheumatic s, etc., and his remarks were illus ed with film shots. The lecturer was inked on the motion of Mr. S. R. Wicks, esford. The meeting resolved that the ciation should meet monthly on the Friday of each month.

**Staff Outing.** — The directors of Selles dispensing Chemists, Ltd., Beverley, ks, organised a coach outing for their recently. Starting from the house of company's chairman and managing actor (Mr. V. H. Iddon) in Beverley, party went via Pickering, Thornton le (for picnic lunch), Forge Valley, to rborough where, later, dinner was en. At a ceremony during the dinner, Iddon was presented with a gold ch from the staff as a token of esteem. nking the staff, Mr. Iddon said how id he was that his first assistant and apprentice who started with him at derness Road, Beverley, thirty-six rs ago (the company now had twelve inches), were still with him. They were . Alice Chapman and Mr. Alfred wn, both now directors of the company.

## IRISH NEWS

**Camera Theft.** — A sentence of fourteen days' imprisonment was imposed in the Dublin district court recently upon Robert Allen, otherwise Walter Greenlees, a male nurse, who was found guilty of obtaining a camera, camera case, and three rolls of film, value £52, from Butler's Medical Hall, Mary Street, Dublin, by means of a worthless cheque.

**Negotiations over Oncost Cut.** — Correspondence has taken place between the Ministry of Health and Local Government and the Pharmaceutical Negotiating Committee in Northern Ireland preparatory to the opening of direct discussions on the position arising from the chemists' refusal to accept the 8 per cent. cut in the drug tariff under the Health Service which was imposed as from July 1. The discussions are expected to begin within a short time.

**Irish Chemists' Golf.** — The Irish Chemists' Golfing Society held an outing at Mullingar Golf Club recently to play for prizes presented by P. C. Cahill & Co., Ltd., and Irish Pharmaceuticals, Ltd. In an 18-holes strokes match the winners were Messrs. B. R. Smith (5) 72 and C. A. Collis (16) 73. In the 18 holes bogey the winners were Messrs. J. Murray (13), 2 down; S. J. Savage (6), 2 down; P. McAuliffe (12), 2 down. For the best net first nine the winner was Mr. P. Slattery (12), 22, and for the best net second nine the winner was Mr. M. L. Cashman (6), 36. The prize for the six sealed holes was won by Mr. M. G. Baynes. The captain (Mr. T. J. Lynch) presided over the supper held later, where the prizes were distributed. A vote of thanks to the donors of the prizes was carried on the motion of Mr. B. R. Smith, supported by Mr. Collis. Messrs. J. P. Holland and T. J. Banks (both representing P. C. Cahill & Co., Ltd.) responded for the donors of the prizes.



Representatives of the British Disinfectant Co., Ltd., at a sales conference in London recently.

## OVERSEAS NEWS

**Australian Chemical Production.**—Manufacturers of pharmaceutical and toilet preparations in Australia employed 5,474 persons in 216 factories during the year ended June 30, 1949. The manufacture of industrial and heavy chemicals, and acids (including explosives) employed 9,137 persons in 192 factories. Output in the pharmaceutical group was valued at £12,334,000; and in the industrial group at £17,322,000.

**Indian Import Announcement.** — The Government of India has decided to permit the free import of certain raw materials essential for the maintenance of industrial production and certain other goods required for maintaining essential supplies in the country, provided they are shipped on or before December 31. A new open general licence (No. 20) has been issued, consisting of two schedules: Schedule A, containing the list of goods which may be imported without licences from all

countries except South Africa; and schedule B, containing the list of goods, part of which will be permitted freely for soft currency countries only. Principal items covered by the new open general licence include in schedule A whole milk powder for infant feeding and milk for infants; coconut oil; penicillin, chlormycetin and insulin; mercury; x-ray film; sulphur; electric medical apparatus; scientific surgical instruments. Streptomycin is included in schedule B.

**French Health Service Prescription**  
The French Minister of Health and Social Security has confirmed that prescriptions are the property of the patient. So that chemists may keep accounts of prescriptions dispensed for insurance purposes, the prescription is handed to the chemist who gives an invoice so that the patient may claim reimbursement for outlay from the social insurance authorities. If the patient wishes to keep a copy of the prescription, the chemist may make one at a cost of fr. 20.

## SCOTTISH CHEMISTS

**Secretary of State amends N.H.S. regulations.** Contractors continue to protest at the cut and collect signatures for mandate to withdraw

It was announced in Edinburgh on August 10 that the Secretary of State had made regulations giving himself power to alter the Drug Tariff (including rates of payments to Scottish chemists) "after consultation with an organisation which is, in his opinion, representative of the general body of chemists." The regulations are embodied in S.I., 1950, No. 1345 (S.97) and are to be effective from August 31.

### Glasgow's Majority Vote to Withdraw

At a meeting in Glasgow on August 10 called by the Glasgow Pharmaceutical Committee, about 200 of the 260 chemist-contractors to the National Health Service decided to sign a mandate that they would withdraw from the N.H.S. if the 8 per cent. cut in their remuneration were imposed before the result of arbitration in their case for a higher dispensing fee had been received. When MR. P. FERGUSON, chairman, called on those in favour of signing the mandate to stand the audience rose in a body.

MR. A. MURRAY, vice-chairman of the Committee, addressing the meeting, appealed to every chemist to sign the mandate. "If we get 80 per cent. signatures

## AND THE CONTRACT

**regulations. Contractors continue to protest at the cut and collect signatures for mandate to withdraw**

we shall be happy." MR. ANDREW CUNNINGHAM (a member of the Pharmaceutical Standing Committee), said that if contractors did not take strong measures now they were "finished." It was stated at a meeting that the multiple and co-operative chemists would not come out in support of the private contracting chemists although they were in sympathy with opposition to the 8 per cent. cut.

### Fife Unanimous for Mandate

Fife chemists, at a meeting at Kirkcaldy on August 13, addressed by DR. D. CALL (resident secretary in Scotland of the Pharmaceutical Society and secretary of the Pharmaceutical Standing Committee, Scotland), carried unanimous resolution accepting the recommendation of the committee to sign the mandate.

### "Co-op" to Think Again

After the publication of the new regulations (see above) the supervisor of a number of co-operative society pharmacies in England said that though his Society's attitude had been one of sympathy with private chemists, while refusing to withdraw they would now have to think again.

## TOPICAL REFLECTIONS

### Emphasis in Education

ucational features in your issue of st 12 include four excellent articles, throwing light on some problem or ems. This form of discussion may be encouraged, for school teaching university education are now receiving derable prominence in the daily and ly Press. The contribution of Mr. G. C. Stewart on pp. 215-16 suggests a ed swing of the educational pendu- Whereas, a year ago (*C. & D.*, 1949. 87-88), Dr. Kenneth C. Capper held colleges must accept "the major re- sibility for both the practical and the emic training of entrants into pharma-

Mr. Stewart claims that "no college e can possibly be as effective a train- ground for that important [practical] as an apprenticeship served under ficient apprentice-master." He delivers rewd thrust at all whom it may con- when he writes that "the present ear apprenticeship following the col- course seems to be the new 'cram ol.'" It is, in fact, arguable that in ast to the normal conception of fifty xty years ago, when scientific know- was thought to be a kind of varnish ed just before a student faced examin- with a view to being registered as a ist, and druggist, the new arrangement ses the process and turns out the y qualified pharmacist as a scientist a varnish of business knowledge. Mr. art does not leave the matter there. adds that the solution of the difficulty "in applying the best of the two sys-," and that "a broader combination usiness training and scientific instruc- would produce a more efficient busi- type."

### Contact with Grammar Schools

a critical article on p. 218 Mr. E. itage shows that the Pharmaceutical ety's curriculum suffers from a weak- at the point where contact occurs een it and the examination require- ts of grammar schools. If I am not nken, some of his remarks will flutter doveccotes of Bloomsbury Square. As Armitage makes no reference to the rally admitted shortage of science rs in schools (see p. 207), we may that grammar schools, or some of n, are, in spite of this handicap, pro-

ducing well-grounded scholars; the examination results cited by him bear out this inference. One of his chief points is that, in the sixth-form science courses of grammar schools, future chemists have worked and are working side by side with future medical men. Both classes should share in the carrying out of the National Health Service Act. What will happen if recruits to pharmacy cannot be enlisted in adequate numbers? Your contributor stops short of this question; but it must occur to educationists engaged in or arranging for training candidates. It is conceivable that increasing pressure might arise to secure the admission of unqualified assistants—or licensed technicians, as they might then be called—to the Pharmaceutical Society's Register on easy terms. No sensible person wishes to see a repetition of the 1919 fight over certain additions to that Register.

### A Herb Market in London

The unsightliness of certain bombed areas in the City of London prompts the suggestion that some learned society might find it worth while to hire a plot of land, fence it, and grow medicinal herbs there, not with any idea of profit but as an eco- logical experiment. When, at long last, the land reverted to its former use, a re- port on the crops could be drawn up. Three centuries ago a street market for the sale of herbs was a feature of the City. A hint of this was given me several years since; but the clue (if it was a clue) was so slight that I thought it hardly worth following up. The evidence most convincing in such cases is of the contemporary or near-contemporary kind. One day last month I found by chance what I had hoped for. Bound in a volume I had been consulting was one of those tedious rhymed dissertations on health that are scattered through the centuries of English history. It is entitled "The Art of Longevity, or A Diæteticall Institution," and is dated 1659. The author, Edmund Gayton, "Bachelor in Physick, of St. John Bapt. Coll. Oxford," spun out his precepts into thirty-three chapters; On glancing through Gayton's pages I found two references to this herb market. The first reference, a marginal note, states that it had been held in Cheapside, but was removed "without a Writ" to St. Paul's Churchyard. The second reference adds that the sellers were girls and women.

Xrayser

## BIRTHS

**BOURNE.**—At the Royal Northern Hospital, London, on August 13, Josephine, wife of David Bourne, M.P.S., 131 Station Road, Hendon, London, N.W.4, of a son, Anthony Alfred.

**HAMILTON.**—At Park Hospital, Dataloghulme, Manchester, on August 14, Marjorie, wife of James A. Hamilton, M.P.S., 7 Meldon Road, Longsight, Manchester, (formerly of Strabane, Northern Ireland) of a son, Roger Andrew.

**MACKENZIE.**—On August 10, 1950, to Joan, wife of Charles Mackenzie, M.P.S., Albion House, Lairg, Sutherland, of a son.

## MARRIAGES

**BRUCE—EUNSON.**—At Trinity Church, Crown Street, Aberdeen, on July 28, James Bruce, M.P.S., 26 Rosehill Drive, Aberdeen, to Alexina Barbara Eunson, Aberdeen.

**SLATER—SPARRE.**—At the Palace Church, Fredensborg, Denmark, on August 5 Philip David Slater, youngest son of Mr. E. H. Slater, M.P.S. 177 High Street, Epping, Essex, to Kirsten Sparre, Fredensborg.

## DEATHS

**BERRY.**—On August 6, Mr. John Cuthbertson Berry, M.P.S., 9 Beechcroft Avenue, Rayners Lane, Harrow, Middlesex, aged seventy-three. Mr. Berry was in business at Craven Park Road, London, N.W.10.

**CARLTON.**—On August 3, Mr. William Eldred Carlton, M.P.S., 21A Beechcroft Mansions, Hopton Road, Streatham London, S.W.16, aged seventy-three.

**CHARLTON.**—On July 29, Mr. William Mitchell Charlton, M.P.S., Kirkgate, Wakefield. Mr. Charlton was taken ill while on holiday in Bridlington, and died in hospital after an operation. Apprenticed to Boots, Ltd., Boar Lane, Leeds, he qualified in 1929. He had been a manager for the company in Grimsby and Buxton before going as manager at Wakefield.

**DOBSON.**—Of the late Mr. A. Dobson (see *C. & D.*, August 12, p. 200), Mr. H. H. Atherton, M.P.S., Blackburn, writes: "Mr. Arthur Dobson's passing is deeply mourned by his friends and colleagues in pharmacy and the photographic trade. He lived an active life devoted to the welfare

of others, as his achievements testify. founder member of the Blackburn Camera Club, he will be particularly missed the photographic world locally."

**HADDOCK.**—On July 14, Mr. John Haddock, M.P.S., 79 Whitehall Road, W. Bromwich, Staffs. Mr. Haddock qualified in 1900.

**HAMMOND.**—On July 21, Mr. Har-Bassett Hammond, M.P.S., 784A Lord Road, Thornton Heath, Surrey, ag sixty-five. Mr. Hammond qualified 1909, and was for many years with M G. Squire, Haymarket, Sheffield. He w a past-secretary of the Sheffield Branch the Society, and a past-president of t Croydon Pharmacists' Association.

**HUXTABLE.**—At Hyrons Lodge, Woodside Road, Amersham, Bucks, on Aug 12, Mr. Ernest John Huxtable (joint managing director of the United Yeast Co Ltd.), aged sixty-five.

**KIMBER.**—On July 31, Mr. Regina Charles Kimber, M.P.S., 32 Jubilee Road Aldershot, Hants. Mr. Kimber qualified 1928.

**MOLSON.**—On August 5, Mr. Algernon Heanley Molson, M.P.S., Springfield Pinchbeck Road, Spalding, a director Molsons (Chemists), Ltd., 6 New Road Spalding, aged seventy-six. A native Wainfleet, Lincs, Mr. Molson commenced in business as a chemist and optician 1905. He retired from active work three years ago, since when the business has been continued by his sons, Mr. G. A. Molson, M.P.S., and Mr. J. R. Molson, M.P. Mr. A. H. Molson took a prominent part in the formation, in 1923, of the Spalding Division of the St. John Ambulance Brigade. Later he was appointed ambulance officer, and in 1931 he became superintendent, continuing in that office until a few years ago.

**PICKER.**—In England, suddenly, August 10, Mr. Myram Picker, chairman of Myram Picker, Ltd., Gala of London Ltd., Crystal Products Co., Ltd., at Henry C. Miner, Ltd., while on his annual visit from New York, U.S.A.

**PILGRIM.**—At 50 Westbrook Avenue, Margate, on August 10, Mr. Walter Ernest Pilgrim, M.P.S. Mr. Pilgrim qualified 1897.

**PROSSER.**—On July 10, Miss Mal Eliza Prosser, M.P.S., 4 Calthorpe Road, Edgbaston, Birmingham. Miss Prosser qualified in 1905.

## PERSONALITIES

MR. K. V. PATEL, B.Sc. (Bombay) has graduated B.Pharm. (London) after study at the School of Pharmacy, University of London.

DR. W. F. J. CUTHBERTSON (head of the trition unit, research and development division, Glaxo Laboratories, Ltd.) gave a paper entitled "The Microbiological Assay of Vitamin B<sub>12</sub>" at the Giornate Internazionale di Farmacia, Verona, on July 24.

DR. V. PETROW (chief research chemist, the British Drug Houses, Ltd.) gave a lecture on "The Chemistry of Vitamin B<sub>12</sub>" at the Gordon Research Conference organized by the American Association for the Advancement of Science in the U.S.A. recently.

MR. S. POTTS, representative of Robertson & Sons, Ltd., Manchester and London, for South London, Kent, Surrey, Sussex and Hants, has been involved in a car accident at Callington, Cornwall, his car being wrecked. He escaped serious injury but he may be a little late in making his usual call upon his chemist friends.

MR. G. T. BRAY, F.R.I.C., editor of "Colonial Plant and Animal Products," a quarterly journal of the Colonial Products Advisory Bureau (Plant and Animal) (see p. 250), was trained at the City and Guilds Technical College, London. He joined the staff of the Imperial Institute and worked in the laboratories (Plant and Animal Products Department), finally becoming head of the laboratories. In 1945 he was appointed head of Intelligence Section (Plant and Animal Products Department) and also the editor of the Bulletin of the Imperial Institute. In 1950 he was appointed Librarian to the Institute.

MR. E. H. BEARD, B.Sc., has been appointed editor of "Colonial Geology and Mineral Resources" (see p. 250). His early technical training began at the School of Metalliferous Mining, Cornwall, and was continued at University College, London, where he graduated in geology and became prizeman in geology and mineralogy. Beard became associated with various mining enterprises, and later, in 1928, joined the staff of the Mineral Resources Department of the Imperial Institute, eventually becoming head of the Mineral Intelligence Section, and vice-principal of the Department. He was associate editor of mineral researches of the Bulletin of the Imperial Institute.

## NEW COMPANIES

FLYGIENE, LTD. (P.C.).—Capital £500. To carry on the business of manufacturers of and dealers in insecticides, fumigants, chemicals, etc. Leopold Butler and Sydney R. Butler, directors. R.O.: 90 Queen Street, London, E.C.4.

BROOKVILLE PHARMACY, LTD. (P.C.).—Capital £300. To acquire Brookville, Santry, co. Dublin, and to carry on the business of pharmaceutical chemists, etc. Kathleen J. Mulligan and Peter Mulligan, directors.

BIOLOGICAL AIDS, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in chemicals, gases, drugs, medicines, etc. First directors are to be appointed. Solicitors: Hardman Phillips & Mann, 10 Norfolk Street, London, W.C.2.

DIETETIC PREPARATIONS, LTD. (P.C.).—Capital £100. To carry on the business of cleaning, renovating, washing, improving, sterilising and reconditioning any matter or substance; manufacturers of and dealers in all kinds of vegetable and mineral drugs, alkaloids, etc. John Webster, Carlton Mill, Clitheroe, and James A. Rush, Yatesfield Mill, Burnaby, Lancs, directors.

## Company News

BOURJOIS, LTD.—Mr. G. R. English has been appointed managing director.

CASTLE HUSKISSON, LTD.—Mr. John B. Bignell has been appointed a director.

DUNCAN, FLOCKHART & CO., LTD.—Mr. E. J. Holder has been appointed to the board of directors and general manager of the company.

MANCHESTER OIL REFINERY, LTD.—An interim dividend has been declared of 10 per cent., less tax, on the ordinary stock in respect of the current year.

STEPHEN SMITH & CO., LTD.—Net profit for the year ended April 30, after deduction of tax, amounts to £53,328 against £53,687 in the previous year. An ordinary dividend of 15 per cent. is recommended.

## BUSINESS CHANGES

EDME, LTD., malt products manufacturers Imperial House, Regent Street, London, W.1, have appointed Mr. C. B. Brickell their representative for the Midlands area.

## TRADE NOTES

**Change of Title.**—Parke, Davis & Co., Staines Road, Hounslow, Middlesex, have changed the name of their "nutritive capsules" to Metagen capsules.

**Prescription Pack Size Change.**—Reckitt & Colman, Ltd., Hull and London, announce a new carton of 300 Disprin tablets (in foils of six) to replace the existing carton of 216 tablets. Until stocks of the original pack are exhausted, prescriptions should be endorsed "ex 216-tablet pack."

**Extended Manufacture.**—Castle Huskisson, Ltd., manufacturing chemists, Swinton Works, Moon Street, Islington, London, N.1, announce that their policy is to expand their range of manufactures to include all forms of pharmaceutical preparations. They invite inquiries from chemists.

**Insect Repellent and Neutraliser.**—Zing No. 1 and Zing No. 2 are two preparations issued in collapsible tubes by Warrick Bros., Ltd., Nile Street, London, N.1, for dealing with insect bites and stings. No. 1 is a repellent and No. 2 is a soothing, "neutralising" application. Terms are given on another page.

**Marketing in America.**—A brochure, "First Steps in United States Markets," by Richardson Woods, M.A. (a member of the Market Research Council, New York), is obtainable from Colman, Prentis & Varley, London and New York. The brochure gives information on regions and populations, industrial and farm markets, selling methods, etc., with many useful diagrams and maps in colour.

**New Tonic Wine.**—Bovril, Ltd., London, are marketing in collaboration with Edward Young & Co., Ltd., London, a new-style tonic wine incorporating meat extract and malt in an Empire wine containing not less than 31 per cent. proof spirit. The label complies with the Labelling of Food Order, 1950, and the wine is to be distributed to licensed chemists on a national basis by Messrs. Bovril.

**Make-up Base in Tubes.**—The "Subtint" make-up base issued by Coty (England), Ltd., 3 Stratford Place, London, W.1, to provide a base for face powder and at the same time to deepen and strengthen the face-powder shade, is now available in collapsible tubes as well as dressing-table jars. The company's foundation lotion is being issued in a new travel size.

**Herbal Smoking Mixtures.**—Belie by the maker, Pierce A. Arnold, F.C. 43 Pollard Road, Morden, Surrey, to unique, Arnold's smoking mixtures herbal mixtures matured for weeks in juice and presented in three flavours broad cut for the pipe, fine cut for cigarettes, and medium cut. They are claimed to smoke more slowly and coolly than herbal mixtures.

**Giant Model Dry Shaver.**—The three-dimensional model of the Remington R



electric dry shaver illustrated is being made available to chemists for shop window interior display. At the stand, which is 4 ft. 6 in. high, a customer can plug in and try out the shaver. A smaller model is also available.

**Training in Shopmanship.**—Staff training schemes are the speciality of Gladys Burlton, B.A., and the Burlton Institute, 30 Manchester Street, London, W.1. Miss Burlton publishes "aid to selling" intended mainly for staffs of departmental stores, but containing practical hints on how to handle customers, a feature that does not vary so greatly between one type of goods and another except, of course, in the sale of medic

proprietors of toilet and perfumery departments with staffs to train the Burling "training outlines" may therefore be a useful purchase.

**Price Change and Bonus Offer.**—  
Burling, Hoseason & Co., Ltd., Atlas Laboratories, Manchester, 19, state that prices of their Zac baby cream were increased on August 15 to 1s. 9d. (including tax) for the 2-oz. and 2s. 9d. (including tax) for the 4-oz. sizes. The trade prices, excluding tax, are 12s. 4d. and 5d. per doz. respectively. Quantity discounts are as before, and there is a discount of thirteen to the dozen. From August 14 to August 31 all orders will be treated on bonus terms. Orders for Zac powder received during the same period will also qualify for bonus.

**Fruit Squash for Hospital Patients.**—  
Fruit Products Co., Ltd., Kent House, Regent Street, London, W.1, recently



organised a tour of three London children's hospitals to present a bottle of their Four Fruits fruit squash to each patient. The presentations were made by three of the London finalists in a national contest (in which the company were one of the sponsors) to find "Britain's Neptune's daughter." The illustration is from a photograph taken at the Princess Louise Hospital for Children.

**Second National Packaging Exhibition.**—It is announced that all the ground floor and one-third of the first floor space at

the National Hall, Olympia, London, has been let for the second National Packaging Exhibition, January 30-February 9, 1951. Already, in fact, more space has been booked than was occupied by the entire exhibitors at the first National Packaging Exhibition held at City Hall, Manchester, in 1949. Special additional features are planned for the show, which is being organised, as before, by Provincial Exhibitions, Ltd., in collaboration with the Institute of Packaging. Negotiations are in progress for a non-commercial display of American and other overseas packaging. Four conference sessions are also being arranged.

### Proprietary Articles Trade Association

**Alterations to Protected List (Part 1).**  
*Brand & Co., Ltd.*, increased prices, orange and lemon-flavoured calf's foot jelly, 16s. 8d. doz., 1s. 9d. (exempt).

*Himrod Manufacturing Co.*, increased prices, Himrod's asthma remedy, 53s. 8d. doz., tax 33½ per cent., inclusive retail price 7s. 6d.

*Parke, Davis & Co.*, Citronin, 4-oz., 24s. doz., tax 33½ per cent., i.r.p. 3s. 8d.; 16-oz., 84s. doz., tax 33½ per cent., i.r.p. 12s. 10d. Storaxol, tube 16s. doz., tax 33½ per cent., i.r.p. 2s. 5½d.

*Phillips Yeast Products, Ltd.*, Phillips pure live tonic yeast, tablets or granules, 13s. 6d. doz., 1s. 6d.; 31s. 6d. doz., 3s. 6d. (exempt). Tablets only, 51s. 9d. doz., 5s. 9d. (exempt). 10 per cent. display bonus on direct orders value £3 carriage paid. Further 2½ per cent. for cash on delivery or cash with order.

**Alterations to Protected List (Part 2).**  
*Prichard & Constance (Mfg.), Ltd.*, increase in standard wholesale price, Amami wave set (green or spirituous), small, 5s. 6d. doz., tax 100 per cent., i.r.p. 1s. 1d. Revised quantity terms (as from July 10): *Amami products*, 7½ per cent. on assorted parcels value £2 and over; 12½ per cent. on assorted parcels value £3 10s. and over.

*Silvikrin Laboratories, Ltd.*, quantity parcel terms (as from July 10): 7½ per cent. discount on assorted parcels value £3; 12½ per cent. discount on assorted parcels value £6.

**Additions to Protected List (Part 2).**  
*R. J. Reuter Co., Ltd.*, 4711 eau de Cologne, wicker-covered bottle, No. 3, 10s. 1d. doz., tax 100 per cent., i.r.p. 21s.

**Deletion from Protected List (Part 1).**  
*Cockle's* brand antibilious pills.

# 250 YEARS IN THE DRUG TRADE IN DUBLIN

Quarter-millenary celebrations of Boileau & Boyd, Ltd.

RECENTLY the staff of Boileau & Boyd Ltd., manufacturing chemists, Dublin, were entertained, with their relatives and friends, to an all-day outing to Mosney, co. Meath, where sporting and other events took place that are illustrated opposite.

Two and a half centuries. A quarter of a millenium! Even a coming of age—twenty-one years—is commonly an occasion for celebration, and the jubilee or centenary of a business is almost invariably specially featured in the Press. Here, in Dublin, is an organisation that has attained its majority a dozen times over, and was already forty-six years old when the first Dublin Pharmacopœia (118 years older than the British) appeared.

### **Robert Wilson, Apothecary**

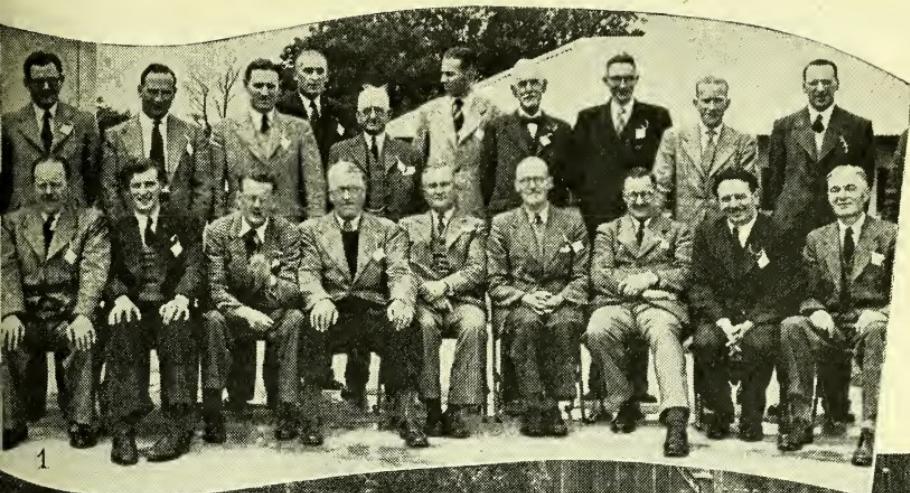
The origins of the firm are traced back to 1700, when one Robert Wilson, Apothecary and Member of the "Corporation of Barbers, Chirurgeons and Periwig Makers," opened his doors in Bride Street, Dublin. From that period has come down a fine collection of pharmacy jars, some of them bearing his name (they are today on view at the National Museum, Dublin, and bear botanical titles such as *Artemisia Maritima*, *Peonia Officinalis*, *Nymphaea Alba* and *Hyssopus Officinalis*). On the death of Robert Wilson in 1714, his son, George Wilson—the elder—assumed control of the business. During his ownership the apothecaries of the City obtained, in 1745, a separate charter under which they became known as "The Corporation of Apothecaries of the City of Dublin (Guild of St. Luke)." Reference to the first Dublin Pharmacopœia is particularly appropriate because it was George Wilson, collaborating with Esdell, who produced it. Another George Wilson, a nephew of the first, took over from his uncle in 1754. Twenty years later the records show that he was elected Master of the Apothecaries Guild. In 1781 George Wilson's daughter, Jane, married John Theophilus Boileau. Boileau, whose grandfather had left France in 1685, was taken into partnership five years later, when the name of the firm was changed to Wilson & Boileau. His name appears also (with that of James Napper Tandy, the famous Irish patriot) cast on the old bell of the Church of St. Bride. The bell stood in the company's board-room for forty-five years.

In the seventy years from 1786, seven changes in the firm's name occur. During the same period numerous changes and improvements took place, including the introduction of steam power to the laboratory and mills. A relic of the period is a woodcut showing the boiler engine providing the power for the grinding machinery, tincture press and other apparatus. In 1875, John George Boyd (representing the third generation) left the business (then trading as Boileaus & Son), and entered into partnership with Mr. Samuel Boyd, J.P., proprietor of an old-established business in Mary Street. Nine years later the two partners dissolved the Bride Street concern, and carried it on under the name Boileau & Boyd, which it bears today. When J. G. Boyd died in 1883, Boyd became the sole proprietor of the Bride Street business until his death in 1894, when the firm was converted into a limited company.

There followed a period of considerable expansion. New buildings were erected among them a laboratory and drug room with modern machinery and plant, a printing department, offices and a spacious warehouse. In the tremendous growth has taken place in recent years in trade in "ethical" medicines, chemist sundries, patents and proprietaries, Boileau & Boyd, Ltd., have been actively engaged. They hold the Dublin agencies of Smith & Dohme, Ltd., Organon Laboratories, Ltd., and Boots Pure Drug Co., Ltd. The present board is composed of Mr. Donald P. Boyd, M.A. (chairman), Mr. George V. Boyd (joint managing director), Dr. D. H. Stuart Boyd, members of the third generation of the Boyd family in business, and Mr. A. G. Brownlee.

### **Outing to Mosney**

On the trip to Mosney the party, numbering almost 300, was accommodated in seven buses and many cars. The first item in a full sports programme was the match of an inter-departmental football team (won by the factory-laboratory team). After lunch, during which messages of congratulation were received over the loud speaker system, there followed tennis matches, bathing parties, races and other sports. Prizes were presented by Donald Boyd (wife of the chairman of the company).



## A MEMORABLE OUTING

*Boileau & Boyd, Ltd.*

1. A group of directors and executives photographed at Mosney (see opposite).
2. The party assembled for a photograph prior to departure.
3. The coaches in waiting.
4. Egg and spoon race—one of many sporting events.
5. High spot of the sporting programme — an inter-departmental football match.

Below: Mrs. D. Boyd greets a prizewinner.



## ADDITIONS TO THE EXTENDED LIST OF POISONS

THE following additions to the entries in the *C. & D.*, Poisons Guide are made necessary by the Poisons List Order, 1950 (S.I., 1950, No. 1213). Brief particulars of the order and of the Poisons Rules, 1950, were given in the *C. & D.*, August 5, p. 164. Poisons added to the "Extended List of Poisons" of the Poisons Guide include Dangerous Drugs and antihistamine substances developed in the United States. Many are not available at present in Great Britain. The two classes of poisons (D.D. and (Sch. 4) exemplify the impact of international affairs on British poisons law.

The inclusion of amidone analogues (*C. & D.*, 1950, I, 545) is an automatic consequence of their becoming Dangerous Drugs under the International Protocol of 1946, despite the fact that there is no likelihood for the time being of their being made or imported under Home Office licence. The addition of antihistamines to the Fourth Schedule to the Poisons Rules is the result of a U.S. "boost" of certain of these substances over the counter in the United States as a cure for the common cold. Paradoxically such sales were themselves the result of exempting mepyramine, prophenpyridamine and thonzylamine from the "Rx legend" (i.e., the American equivalent of British "Rx only" requirements). While the extended list below includes antihistaminics not at present on the British market, the fact that compounds such as diphenhydramine and tripeleannamine are in the U.S.P. XIV, 1950, may be taken as an indication of probable future developments in this country. Variations in the compositions of proprietary products are of interest in this connection.

A note of warning is necessary that the list below does not contain the antihistaminics known as chlorcyclizine and promethazine, which are derivatives of methylpiperazine and phenothiazine respectively. These potent antihistaminics are not listed as yet, presumably owing to the difficulty of satisfactorily defining the two groups. Most of the new poisons are marketed as proprietary products. They include preparations of difluorophosphonate and polymethylene-bis-trimethylammonium salts. The list completes the data necessary for dealing with each product correctly in accordance with the terms of the poisons legislation.

- Alphaprodine.** (P.I.) (S.I.) (D.D.) (1)  
(Approved name for  $\alpha$ -4-Propionoxy-4-phenyl-1:3-dimethyl-piperidine.)  
(Poisons List entry includes its salts.)  
(Preps. D.D. in any proportion.)
- "Anahist." (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
(Tablets contain THONZYLAMINE HYDROCHLORIDE 25 mgm. in each.)
- "Antamine." (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
(MEPYRAMINE MALEATE, 25 mgm. in each tablet.)
- Antazoline.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
(Approved name for 2-(N-phenyl)-(N-benzyl-amino)-methyl-imidazoline.)  
(v. "Antistin"; "Antistin-Privine.")
- "Antergan." (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
(N : N-DIMETHYL-N'-PHENYL-N'-BENZYL-ETHYLENE DIAMINE.)  
(Marketed on the Continent by Specia. Dragée contain 0.1 gm.)
- "Anthallan." (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
(3-Di-n-BUTYLAZINOMETHYL-4:5:6-TRIHYDROXYPHthalide.)
- "Anthisan." (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
(M. & B.) (MEPYRAMINE MALEATE.)  
(Tablets contain 0.05 gm. and 0.1 gm. in each Ampoules: 0.05 gm. in 2 c.c.)  
(Elixir: 0.025 gm. in 4 c.c. (1 fl. dr.).)  
*Anthisan Cream.* (Ex A.)
- Anti-histamine substances and their salts.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
(The Poisons List entry reads:—
- Antazoline**  
**Diphenhydramine**  
**3-Di-n-butylaminomethyl-4:5:6-trihydroxyphthalic Phenindamine**
- Substances being tetra-substituted N derivatives of ethylenediamine or propylenediamine:**  
See "Antergan"  
**Chlorothen**  
**Enstamine**  
**Mepyramine**  
**Methapyrilene**  
**Thenylpyramine**  
**Thonzylamine**  
**Tripeleannamine**
- "Antilusin." (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
(A. & H.) (Solution of PENTAMETHONIUM IODIDE. Ampoules contain 50 mgm. in 5 c.c.)
- "Antistin." (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
(Ciba) (Tablets contain ANTAZOLINE HYDROCHLORIDE, 0.1 gm. (gr. 1 $\frac{1}{2}$ ) in each.)  
(Ampoules: ANTAZOLINE METHANESULPHONATE 0.1 gm. in 2 c.c.)
- "Antistin-Privine." (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
(Solution of ANTAZOLINE SULPHATE, 0.5% w. with 0.025% of "Privine" (2-(1-naphthyl-methyl)-imidazoline nitrate).)  
(Available in dropper bottles and plastic nebulisers.)
- "Benadryl." (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
(P. D. & Co.) (DIPHENHYDRAMINE HYDROCHLORIDE.)  
(Capsules contain 25 mgm. or 50 mgm.)  
(Ampoules: 10 mgm. in 1 c.c.)  
(Elixir: 10 mgm. in 4 c.c. (1 fl. dr.).)  
*Benadryl Cream.* (Ex A.)
- "Benlylin Expectorant." (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
(Contains DIPHENHYDRAMINE HYDROCHLORIDE, 1 mgm. in 1 fl. oz.)
- Betaprodine.** (P.I.) (S.I.) (D.D.) (1)  
(Approved name for  $\beta$ -4-Propionoxy-4-phenyl-1:3-dimethyl-piperidine.)  
(Poisons List entry includes its salts.)  
(Preps. D.D. in any proportion.)
- C. 5.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
(See Pentamethonium iodide.)

- (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
*See Hexamethonium iodide.*  
**10.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
*See Decamethonium iodide.*  
**B. 11.** (P.I.) (S.I.) (D.D.) (1)  
 PHENADOXONE HYDROCHLORIDE.  
 v. "Heptalgin."  
 "Benadryl" (Ex A.)  
 P. D. & Co. (Calamine and "Benadryl" lotion.)  
**Aubren.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 Tablets contain CHLOROTHEN CITRATE, 25 mgm. with phenacetin, gr. 5, and caffeine, gr. 1/2.  
**Brothen.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 Non-proprietary name for N:N-dimethyl-(N'-pyridyl)-(chloro-phenyl)-ethylene-diamine.  
 v. "Caubren" "Tagathen."  
**P. (P.I.) (S.I.) (4)**  
 DI-ISOPROPYL-FLUOROPHOSPHONATE.  
 Used in solution as eye-drops and injection.  
**P. Solution (P.I.) (S.I.) (6)** (Sch. 7(7).)  
 Eye drops contain 0.05% w/v or 0.1% w/v of DI-ISOPROPYL-FLUOROPHOSPHONATE in sterile arachis oil.  
 Injection contains DI-ISOPROPYL-FLUOROPHOSPHONATE, 2 mgm. in 2 c.c. of sterile arachis oil.  
 Label with Sch. 7(7) warning: Caution. This preparation should be administered only under medical supervision. The vapour is dangerous.  
**Asikson.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 Capsules contain THENYL PYRAMINE HYDROCHLORIDE, 30 mgm., with acetylsalicylic acid, gr. 3 phenacetin, gr. 2 and caffeine, gr. 1/2.  
**Amethonium iodide.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 Approved name for 1:10-bis-(trimethylammonium)-decane-di-iodide.  
 Solution contains 1 mgm. or 2 mgm. per c.c.). Ampoules: 5 mgm. in 5 c.c. or 5 mgm. in 2.5 c.c.  
 v. "C. 10"; "Eulissin"; "Syncurine."  
**Diatrin.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 Tablets containing ENSTAMINE HYDROCHLORIDE, 50 mgm. in each.  
**Hydriamine.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 Approved name for Diphenylmethyl-β-dimethylaminoethyl ether; also known as Benzhydryl-β-dimethylaminoethyl ether.  
 v. "Benadryl"; "Benylin"; "Dramamine"; "Hydrilline."  
**Dramamine.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 DIPHENHYDRAMINE-8-CHLORO-THEOPHYLLINATE.  
**Tamine.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 Non-proprietary name for N:N-dimethyl-(N'-phenyl)-(N'-phenyl)-ethylene-diamine.  
 v. "Diatrin."  
**Eulissin.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 A. & H. (Solution of DECAMETHONIUM IODIDE.)  
 Ampoules of two strengths: A, 5 mgm. in 2.5 c.c.; P., 5 mgm. in 5 c.c.  
**Leptalgain.** (P.I.) (S.I.) (D.D.) (1)  
 Glaxo (PHENADOXONE HYDROCHLORIDE.)  
 Tablets contain 10 mgm. in each.  
**Decamethonium bromide.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 (Approved name for 1:6-bis-(trimethylammonium)-hexane-di-bromide.)  
 v. "Vegolysin."  
**Decamethonium iodide.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 Approved name for 1:6-bis-(trimethylammonium)-hexane-di-iodide.)  
 v. "C. 6"; "Hexathide."  
**Hexathide.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 Geigy (Solution of HEXAMETHONIUM IODIDE. Ampoules, 50 mgm. in 2.5 c.c.)  
**"Histadyl."** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 (Lilly) (Tablets contain THENYL PYRAMINE HYDROCHLORIDE, 25 mgm., 50 mgm., or 100 mgm. in each.)  
**"Histostab."** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 (Boots) (Tablets contain ANTAZOLINE HYDROCHLORIDE, 0.1 gm. in each.)  
 (Ampoules: ANTAZOLINE METHANESULPHONATE, 0.1 gm. in 2 c.c.)  
**"Hydrillin."** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 (Compound of DIPHENHYDRAMINE with aminophylline.)  
 (Cough syrup contains in 4 c.c. (1 fl. dr.) DIPHENHYDRAMINE, 6.25 mgm. with aminophylline, 25 mgm.)  
**Hydroxypethidine.** (P.I.) (S.I.) (D.D.) (1)  
 (Approved name for Ethyl 4-m-hydroxyphenyl-1-methylpiperidine-4-carboxylate.)  
 (Poisons List entry includes its salts.)  
**Preps. D.D. in any proportion.**  
**Isoamidone.** (P.I.) (S.I.) (D.D.) (1)  
 (Approved name for 6-Dimethylamino-4:4-diphenyl-5-methylhexan-3-one.)  
 (Poisons List entry includes its salts.)  
**Preps. D.D. in any proportion.**  
**Ketobemidone.** (P.I.) (S.I.) (D.D.) (1)  
 (Approved name for 4-Propionyl-4-m-hydroxyphenyl-1-methylpiperidine.)  
 (Poisons List entry includes its salts.)  
**Preps. D.D. in any proportion.**  
**"Kryptin."** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 (MEPYRAMINE MALEATE, 25 mgm. in each tablet.)  
**"Lytensum."** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 (M. & B.) (Solution of PENTAMETHONIUM BROMIDE.)  
 (Ampoules contain 0.1 gm. in 1 c.c.)  
 (Syrup for oral administration.)  
**Mepyramine.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 (Non-proprietary name for N:N-dimethyl-(N'-pyridyl)-(N'-methoxybenzyl)-ethylene-diamine.)  
 v. "Anthisan"; "Antamine"; "Kryptin"; "Neo-Antergan"; "Thylogen.")  
**Methadol.** (P.I.) (S.I.) (D.D.) (1)  
 (Approved name for 6-Dimethylamino-4:4-diphenyl-heptan-3-ol.)  
 (Poisons List entry includes its salts.)  
**Preps. D.D. in any proportion.**  
**Methyl acetate.** (P.I.) (S.I.) (D.D.) (1)  
 (Approved name for 6-Dimethylamino-4:4-diphenyl-3-heptyl acetate.)  
 (Poisons List entry includes its salts.)  
**Preps. D.D. in any proportion.**  
**Metaphyrilene.**  
 (Non-proprietary synonym for Thenylpyramine, q.v.)  
**"Neo-Antergan."** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 (Merck) (Tablets contain Mepyramine Maleate, 0.05 gm. or 0.1 gm. in each.)  
**"Neohetramine."** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 (THONZYLAMINE HYDROCHLORIDE, 25 mgm. in each tablet.)  
**"Nuclon."** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 (S.K.F.) (Tablets contain in each THENYL PYRAMINE FUMARATE, 37.5 mgm., DEXTRO-AMPHETAMINE SULPHATE, 1.25 mgm. and acetylsalicylic acid, gr. 2 1/2.)  
**Pentamethonium bromide.** (P.I.) (S.I.) (Sch. 4, Rx only) (2)  
 (Approved name for 1:5-bis-(trimethylammonium)-pentane-di-bromide.)  
 v. "Lytensum."  
**Pentamethonium iodide.** (P.I.) (S.I.) (Sch. 4, Rx only) (1)  
 (Approved name for 1:5-bis-(trimethylammonium)-pentane-di-iodide.)  
 (Ampoules: 50 mgm. in 5 c.c.)  
 v. "Antilusin"; C. 5.)

**"Pentryl."** (P.I.) (S.1.) (Sch. 4, Rx only) (2)  
(Tablets contain in each THENYL PYRAMINE HYDROCHLORIDE, 50 mgm., PENTOBARBITAL SODIUM, 16 mgm. and EPHEDRINE HYDROCHLORIDE, 16 mgm.)

**Phenadoxone.** (P.I.) (S.1.) (D.D.) (1)  
(Approved name for 6-Morpholino-4:4-diphenyl-heptan-3-one.)  
(Poisons List entry includes its salts.)  
((D.D.) in any proportion).  
(v. "Heptalgin.")

**Phenindamine.** (P.I.) (S.1.) (Sch. 4, Rx only) (2)  
(Approved name for 2-methyl-9-phenyl-1:2:3:4-tetrahydro-pyridine; also described as 2-methyl-9-phenyl-1:2:3:4-azofluorene.)  
(v. "Trephorin.")

**Poly(methylene-bis(trimethylammonium salts).** (P.I.)  
(S.1.) (Sch. 4, Rx only) (2)  
(See Decamethonium iodide  
Hexamethonium bromide  
Hexamethonium iodide  
Pentamethonium bromide  
Pentamethonium iodide.)

**Pyranisamine.**  
(Non-proprietary synonym for Mepyramine, q.v.)  
**"Pyribenzamine."** (P.I.) (S.1.) (Sch. 4, Rx only) (2)  
(*Ciba*) (TRIPELENNAMINE HYDROCHLORIDE.)  
(Tablets contain 0.05 gm. (gr.  $\frac{1}{4}$ ) in each.)  
(Elixir contains 0.02 gm. in 4 c.c. (1 fl. dr.).)  
(Nebulisers contain 7.5 c.c. of 0.5% w/v solution.)

**"Resistab."** (P.I.) (S.1.) (Sch. 4, Rx only) (2)  
(Each tablet contains 25 mgm. of THONZYLAMINE HYDROCHLORIDE.)

**"Syncurine."** (P.I.) (S.1.) (Sch. 4, Rx only) (2)  
(B.W. & Co.) (Solution of DECAMETHONIUM IODIDE.)

(Ampoules: 5 mgm. in 2.5 c.c.)

**"Tagathen."** (P.I.) (S.1.) (Sch. 4, Rx only) (2)  
(Lederle) (Tablets contain CHLOROTHEN CITRATE, 25 mgm. in each.)

**"Thenfadyl."** (P.I.) (S.1.) (Sch. 4, Rx only) (2)  
(THENYL PYRAMINE HYDROCHLORIDE.)

**"Thenylene."** (P.I.) (S.1.) (Sch. 4, Rx only) (2)  
(Abbott) (THENYL PYRAMINE HYDROCHLORIDE, 25 mgm., 50 mgm. or 100 mgm. in each tablet.)

**"Thenylene-APC."** (P.I.) (S.1.) (Sch. 4, Rx only) (2)  
(Capsules contain in each THENYL PYRAMINE HYDROCHLORIDE, 25 mgm., with acetylsalicylic acid, gr.  $\frac{3}{4}$ , phenacetin, gr.  $\frac{2}{3}$  and caffeine, gr.  $\frac{1}{2}$ .)

**Thenylpyramine (Methapyrilene).** (P.I.) (S.1.) (Sch. 4, Rx only) (2)  
(Non-proprietary name for N:N-dimethyl-(N'-pyridyl)-N'-thenyl)-ethylene-diamine.)

(v. "Dasikon"; "Histadyl"; "Nuclon"; "Pentryl"; "Thenylene.")

**"Thephorin."** (P.I.) (S.1.) (Sch. 4, Rx only) (2)  
(Roche) (PHENINDAMINE HYDROGEN TARTRATE.)  
(Tablets contain 25 mgm. in each.)

**"Thephorin Ointment."** (Ex A.)  
**Thonzylamine.** (P.I.) (S.1.) (Sch. 4, Rx only) (2)  
(Non-proprietary name for N:N-dimethyl-(N'-pyrimidyl)- (N'-methoxy - benzyl) - ethylenediamine.)

(v. "Anahist"; "Neoh ترامين"; "Resistab.")  
**"Thylogen."** (P.I.) (S.1.) (Sch. 4, Rx only) (2)  
(MEPYRAMINE MALEATE.)

**Tripeleannamine.** (P.I.) (S.1.) (Sch. 4, Rx only) (2)  
(Non-proprietary name for N:N-dimethyl-(N'-pyridyl)-(N'-benzyl)-ethylene-diamine.)

(v. "Pyribenzamine.")

**"Vegolysin."** (P.I.) (S.1.) (Sch. 4, Rx only) (2)  
(M. & B.) (Solution of HEXAMETHONIUM BROMIDE, 10% w/v.)

(Ampoules contain 1 c.c.)

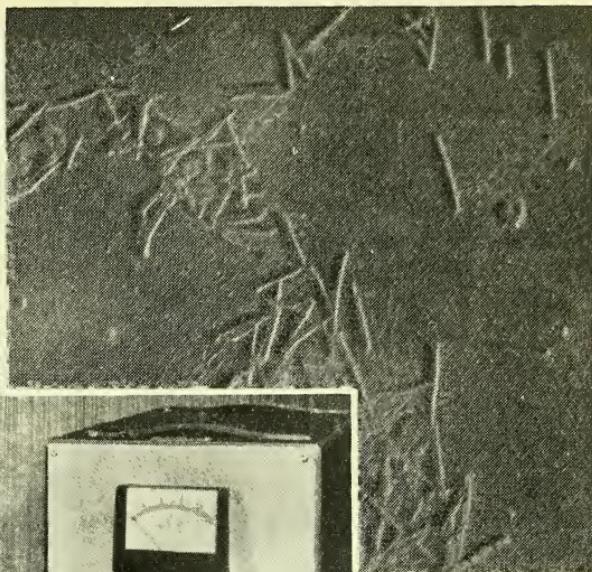
## RECENT RESEARCH

**Insect Faunas of Dried Roots.**—Dow and William (Colonial Plant and Ani Products, 1950, 1, 33), discuss the insect faunas found on roots of *Lonchocarpus Derris*. Thirty-three species of insects arachnids were found on roots of *Lonchocarpus* imported into Scotland as material of rotenone. Although all thesects were then dead, the roots had probably been fumigated before shipmost species had been breeding in roots for a considerable time, and caused severe damage. The mode of occurrence, habits and distribution of the various species are discussed. *Lonchocarpus Derris* faunas are compared. Both incl (a) wood-boring species, polyphagous strobucts insects, and predators or parasites (b) species of limited (natural) rare species in process of being distributed international trade and species that have already become cosmopolitan.

**Photosensitivity of Sunscreens.**—Of various properties desired in a sunscreen (i.e., a compound with a marked absorption in the sunburn-producing region sunlight) one is that it should resist composition under the influence of light. Christensen and Giese ("Journal of American Pharmaceutical Association", xxxix, 4, 223) measured the changes in absorptive power of a number of commonly used compounds following irradiation two hours under a sunlamp. The results are summarised in the following table:

COMPOUND	EFFECT OF IRRADIATION ON ABSORPTIVE POWER	
	INCREASE	DECREASE
Ethyl p-dimethylaminobenzoate		Very slight
Ethyl p-aminobenzoate	Great	
Menthyl salicylate	Very slight	
Homomenthyl salicylate		Slight
Isoamyl	Little change	
Amyl	Great	
Phenyl	Slight	
Eenzyl	Slight in "valleys"	Slight in "peaks"
Menthyl anthranilate	Over entire scale	
Homomenthyl cinnamate		Decided
Benzylacetophenone		Great
2-Naphthol-6-sulphonic acid	Great general increase but slight loss specific absorption.	
Tannic acid	Slight	
Quinine sulphate		Slight
Phenol	Slight	

## W (PERMANENT-MAGNET) ELECTRON CROSCOPE



**Photomicrograph of tobacco mosaic virus (x 6,000 electronically, increased to x 40,000 photographically).** Left: The instrument in use.

(against up to x 20,000 electronically, and a total of x 100,000 in the conventional type of electron microscope). A special vacuum lock enables a specimen or photographic

plate to be introduced without seriously reducing the vacuum. Simplicity of operation makes the instrument safe for use by high school students or unskilled laboratory personnel.

There are four parts: Microscope; control unit; high-voltage unit; and vacuum pump. The microscope and the control unit are placed side by side on a table, while the high-voltage unit and vacuum pump are below. A meter on the control unit is connected to a 5-position switch which allows the operator to read vacuum, beam current, oscillator voltage and current, etc. The resolving power is up to 100 Angstrom units and the depth of focus up to  $10\mu$ . Distribution in the British Isles is by R.C.A. Photophone, Ltd., 36 Woodstock Grove, London, W.12, who are also prepared to arrange for servicing the instrument.

NEW form of electron microscope which, it is claimed, will bring electron microscopy within the scope of colleges, hospitals, industrial laboratories and high schools, is now available in Britain. Its essential feature is the use of permanent magnets (instead of electromagnets, see *C. & D.*, 1947, II, 229) to produce the magnetic fields (lenses) that focus the electron beam. Having a height of only 30 in., and with portable control unit that can be mounted on a desk or bench (see illustration), the instrument is easier and simpler than conventional models. Weight for weight and inch for inch, it is claimed to be more efficient than any other microscope ever built. It magnifies electronically up to 6,000 diameters. The image obtained electronically may be magnified photographically without loss of detail to a total of 40,000 diameters.

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r Chemists' Societies in the Empire.

. CLIV AUGUST 19, 1950 No. 3678

## pproval for Altering Premises

In a previous article (*C. & D.*, July 29,  
45) the conditions to be observed to  
d the need for "planning permission"  
premises alterations were given.

It remains advisable, before undertaking  
operations, to ask the authority in ad-  
ce whether a planning permission is  
essary in respect of the works it is pro-  
ed to carry out. If the authority ap-  
ves the proposition, so much to the  
d. If the scheme is vetoed, the decision  
y always be challenged by appeal to the  
nister. If what is proposed requires  
nning permission, then, of course, appli-  
on must be made to the local authority  
uch permission. If the premises are in  
City of London, application is made  
the Common Council; if outside the  
y, but somewhere else in London, to  
London County Council; elsewhere, to  
ounty borough council or urban or rural  
istrict council. The necessary forms are  
ained from the local authority. If a  
development charge is payable, the appro-  
ate form may also be obtained then.

The local authority gives its determina-  
of an application within two months  
receiving it. If permission is re-  
d, or conditions are attached, the  
unds are stated, and there is right of  
eal. Notice of appeal must be given to  
Minister of Town and Country Plan-  
g within one month of receipt of the  
l authority's notice of determination.  
Minister may, if he thinks fit, extend  
time for appealing.

o far as development charge is con-

cerned, application may be made to have  
the question determined whether any and  
if so what development charge is payable  
in respect of the operations it is proposed  
to undertake. The form is a special one  
issued by the Central Land Board, which  
can be obtained either from the Board or  
from the local authority to which applica-  
tion is made for planning permission.  
The application, whether it is for planning  
permission or in respect of development  
charge, must be accompanied by all the  
necessary particulars, plans, drawings and  
other documents. In the first instance there  
is no need to make what is called a de-  
tailed application—an "outline applica-  
tion" is sufficient. In such an application  
a general indication is given of what it is  
proposed to do, but without furnishing  
plans, drawings, or other documents. If  
the proposals are accepted in principle by  
the authority it is followed up by detailed  
plans as to site, design, external appear-  
ance of the buildings and means of access.

The amount at which the development  
charge is assessed by the Central Land  
Board need not be accepted. It is always  
open to the applicant to bargain. The  
proper course is to apply to the Board to  
vary the amount. For this purpose a spe-  
cial form is obtainable from the Board, and  
the form details the matters that must be  
stated, including the ground for challeng-  
ing the decision of the Board. Before  
challenging a decision of the Board it is  
advisable to obtain expert advice.

## Scottish Minister Shows Fight

THE Secretary of State for Scotland has  
made it clear in a new order (p. 236) that  
he intends to have the power to alter the  
terms of service of chemist contractors in  
Scotland as affected by the Drug Tariff.  
By the amending Order he effectually re-  
moves, from the date of its taking effect,  
the basis on which the contractors secured  
a declaratory order recently (see *C. & D.*,  
August 5, p. 175), the effect of which was  
to nullify the cut. Meanwhile, as will be  
seen from the reports of meetings held in  
various parts of Scotland (p. 236), there  
remains a hard core of opinion prepared  
to mandate the Pharmaceutical General  
Council, acting as the negotiating body, to

withdraw from the contract. Final figures are not yet to hand, and until they are known the Council will take no action.

## Colonial Office as Publisher

ADMINISTRATIVE changes effected in the control of the Imperial Institute in April 1949 (see *C. & D.*, 1949, I, 538, 562) are reflected in the publication of two new Colonial Office quarterlies in place of the former "Bulletin of the Imperial Institute." Under the changes the Plant and Animal Products and the Mineral Resources Departments of the Institute were transferred to the Colonial Office, the former becoming the Colonial Products Advisory Bureau (Plant and Animals), the latter the Mineral Resources Division of the Colonial Geological Surveys.

The publications that replace the long familiar red-backed "Bulletin" are called respectively "Colonial Plant and Animal Products" and "Colonial Geology and Mineral Resources." The former is edited by Mr. G. T. Bray, F.R.I.C., and the latter by Mr. E. H. Beard, B.Sc., who were associated with one another in the editorship of the "Bulletin." The first numbers prove that the valuable information provided in the past will continue to be forthcoming, and that it will be presented attractively in an eminently readable form.

## Produce of Malaya

A RECENT publication of the Central Office of Information—"An Economic Review of Malaya, 1945-49"—gives an account of post-war reconstruction and rehabilitation on the mainland of the Malayan Peninsula, on Penang Island, and in the colony of Singapore. The economy of the country is based on agriculture, with rubber as the main product. In spite of continuing terrorist activity, Malaya produced in 1948 a record output of rubber, and production of a number of other commodities also increased steadily. A crop entirely in the hands of smallholders is the areca nut. Generally it is raised in mixed cultivation, though in certain areas it is planted as the sole crop. Most of the crop is marketed in the form of split nuts, but some are sliced. In 1948, the total area under cultivation was 50,194 acres. Exports in

that year amounted to 27,597 tons valued at £1,490,000. Other spices grown in Malaya include chillies, sireh (*Piper betel*) and ginger, mostly in small areas but covering about 7,150 acres, of which chillies account for 3,160 and sireh 2,420. Demand is steady at high prices. Malaya's nutmeg industry is "virtually extinct" and the clove crop, which suffered severely under the Japanese occupation, is at present negligible. The pepper industry has substantially declined in recent years and is now less than 100 acres in extent.

Neglect of coconut plantations after Japanese occupation is now being rectified and output of copra and coconut oil is improving. However, in contrast to coconut palm, which is found on small holdings, oil palms are in Malaya essentially an estate crop. The high prices have resulted from world shortage of vegetable oils has prompted the development of estates. A considerable demand is received for new land for plantations. Machinery is being used on a number of estates, especially in new planting operations. Minor forest produce of Malaya includes jelutong (*Dyera spp.*) a substitute for chicle gum, used in the production of chewing gum, and of dammar resin.

## A PHARMACIST'S ANTHOLOGY

THE dispensary was no charitable institution, but a shop so labelled in Merchant Street, one of half a dozen such kept by medical men who lived away from their practices and bothered himself as little about the takings as was consistent with banking the takings and signing the death certificates. A needy young student, whose sole qualification was cheapness, was set to do business of each place. The uniform price for advice and medicine was sixpence. No doubt there were occasional faith-cures. Indeed, cures of simple diseases were not all impossible. For there was always a good supply of two drugs in the place. Turnip rhubarb and sulphuric acid: both useful, both very cheap, and both given very far in varied preparation, proportions handled. An ounce or two of sulphuric acid, for instance, costing something like 1s. 6d., diluted with water into many jugs of physic.—From "A Child of Jago," by Arthur Morrison.

## AN EARLY DISTILLER

By Howard Bayles

ROM time to time the name of Hieronymus Braunschweig receives a casual mention in scientific literature. He has been recorded about his career. Books of reference state that he was born at Strasbourg, and that he lived from late in the fifteenth century to early in the sixteenth. His fame rests mainly in his "Tractatus de arte distillandi de Simplicibus," published in 1500 and translated into English in 1527. The book is said to have been the result of thirty years' work; the tractions of the plants selected were saved. Dr. Agnes Arber states in her book on herbals, from the German "Herbarius zu Teutsch" of 1485. In the English version, a substantial quarto, the final author's name appears as Jheromynswyke, and the title reads: "The use boke of Distyllacyon of the waters and maner of Herbes with the fygures of styllatoryes . . . And now newly Translated out of Duyche into Englyshe Nat only by synguler helpe and profyte of the gyens, Phisycyens and Pothecaryes but of all maner of people . . ." In his preface the translator, Laurence Andrew, after disclaiming any special qualification for his task, adds: "For me thynke where masters in all Science expert wyl take cheue paynes, It is nat dyscommendable a man of more base lernynge to put his helping hande."

### Distilling Defined

The first section of the volume is allotted an illustrated description of methods of distilling. The translator gives the following definition: ". . . dystylling is none other but only a purifying of the grosse in the subtill and the subtill frome the se . . . and the quycke spyrte to be le more quycker . . . for dystyllacyon is elementall thyngh, for thrugh the ynge of the naturall hevyns everyone to be natuturally [sic] governed by the yes above . . ." The next section is a simplified form of dispensatory. In its preface we read that it has been "compiled and gadered togyder for the common people that have no physycyons nor can have no medycynall substancies for lack money." The author is not satisfied, however, with physicians as a body. "How n," he declares, "have I sene an oned physycyon mynister his medycyns knewe nor dyseasis nor yet the com-

plexyon but mynistred hete to hete . . . or moystour to moysture . . . or cold to cold . . ." Most of the substances in the section are illustrated: their Latin and English names are given, but descriptions are either brief or absent. Each therapeutic use is introduced by a letter of the alphabet; and so numerous are the virtues of a few herbs—e.g., betony and salvia—that one alphabet does not suffice.

### Quaint Ideas

Recommendations for prescribing the various distilled waters are in accordance with what we know of sixteenth-century medical practice. One of the less familiar is obtained from "duckys blode;" we are informed that "the blode of the wylde duckys" is the best. It should be distilled in "the last moneth of the hervest," presumably September or October, according to circumstances. The preparation is good for the stone when taken for thirty or forty days in ounce doses. Water of "lettys," distilled, preferably, in the middle of May, is used for "anointing" the head, and is "let drye agayne by hym selfe." This treatment relieves "syndelynge" (? swimming) in the head. Taken night and morning, 3j at a time, it helps in "the tremblyng of the membres." The "juce" (i.e., sap) of "the most gentlest vyne that may be gotten," collected early in April, distilled and rectified, and taken with an unspecified admixture of "drynke," causes "good wyttes" and comforts them. Applied to the face and allowed to dry, it "cawseth a fayre clere face." Drops of the sap obtained when vine branches are laid on a fire are useful for "the wrattes." Finally, aqua vitæ composita, containing spices, helps "a bodye that is so forgetfull that he knoweth nat what he doth:" applied to the back of the head with vinegar and rue it stops "laskes" (diarrhoea). Aqua vitæ without any addition produces, we read, "a good colour in a parson."

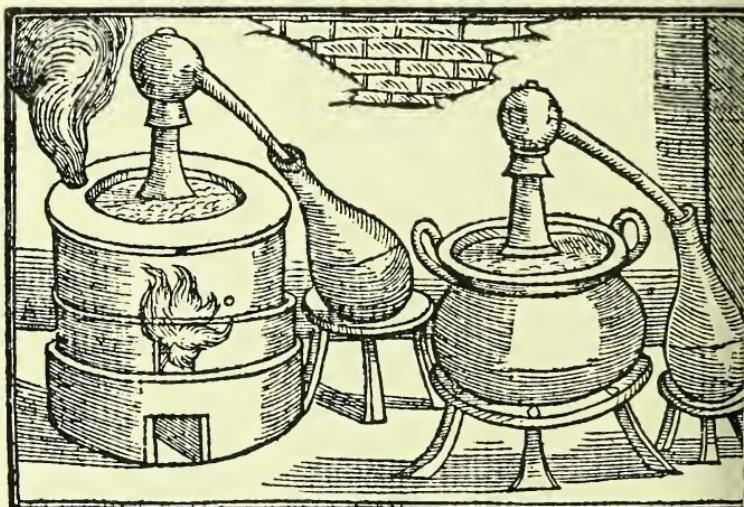
### A Household Dispensatory

Another book by Braunschweig, his "Thesaurus Pauperum," appeared in an English translation by John Hollybush in 1561, with the title "A most excellent and perfecte homish apothecarie or homely physick booke for all the grefes and diseases of the bodye." Its ninety pages suggest a background of the type found in "The

vertuose boke of Distyllacyon." Though the reader of this "homely" book may not have qualified as a distiller, he was given instructions for making a sudatorium which, when mallow, oat straw and valerian were infused in hot water, formed a treatment for "a consuming cough." A pre-scientific mentality is evident in many passages, and notably in directions for

thou canst get in water, untill the fles do consume: take the fatt flowing up them, and kepe it in a clene thynge, a when nede is, anoynte the teth therwy. But take hede, that thou do not touche the other lykewyse, or els consumeth it other also. Lyke wyse doch the tooth of dead man, if one touche ther wyth sore tooth . . ." Another method was

Sixteenth  
Century  
Stills



diagnosing mental disorder. After directing that the patient be given a draught of spiced wine, the instructions continue:

"It is good also to take the harte and liver of a fyshe called a Pyck, and put the same into a pott wyth glowyng hote cooles, and holde the same to the patient, so that the smoke maye entre into him. If he is possessed, he can not abyde that smoke, but rageth and is angry.

"It is good also to make a fyre in hys chamber of Juniper wood that is grene, and caste into the fyre Frankincense and S. Jhons grasse or S. Jhons worte: for the evill spretes can not abyde thys sent, and waxe angryre, wherby may be perceived whether a man be possessed of an evell spret or not . . . If any chylde weare Peony sede about hys body, no evell sprete can hinder him."

#### Frogs and Poultry

Extraction of teeth could, it seems, be painless if the author's directions were followed. "To make a tooth to fall wythout smarte. Seth as many litle grene frogges brething or sitting upon trees, as

inhale morning and evening the fumes sulphur, obtained by lighting nine match After frogs and sulphur matches materia medica takes in poultry—but for eating. If a patient is very weak af a prolonged illness, a bath is to be prepared thus: "Take twentye olde coct dresse and dighte them as though th shoulde be eaten, seth them in the thy parte of a tonne of water, stampe them a morter, so that the bones be al to bru and make a bath therwyth." In comp son, the addition to a tincture of saff and cinnamon of a piece of fine gold, hea to redness nine times, appears almost c monplace. As only the clear solution this mixture was to be dispensed, we n infer that the gold was recovered further use. Distillers in the period cove by these two books have a twofold inter because a distiller could also be a chem This fact is indicated by a refere to Baker's "The newe Iewell of Healt in the C. & D., 1934.I.727, where names of four London distillers of med nal products are given. A broadside by o them, John Hester, is in the Brit Museum,

## PROTECTION AGAINST SUNBURN

TH the help of Miss H. M. Tedham (pharmacist to St. John's Hospital for Diseases of the Skin, London), Drs. B. Russell and Daphne Anderson ("Lancet," 1950, 29, 247-50) have investigated the protective effect of a number of sun-radiation screening-agents when incorporated in different bases. They studied the absorption spectra of the preparations and their effect on a sensitive person when exposed to sun-producing rays, and found that protection against sunburn (which is produced by ultra-violet rays or wavelengths between 300 Å and 2900 Å) is provided most conveniently by a vanishing-cream base containing tannic acid, 5 per cent.; quinine hydrochloride, 5 per cent.; Pyribenzamine (peleunnamine), 5 per cent.; sodium minobenzoate, 10 per cent.; salol, 10 per cent.; or yellow soft paraffin, 50 per cent.

### S-Screen of Choice

Tannic acid is the sun-screen of choice. For one thing, it is least likely to cause contact eczema. After tannic acid in that respect follow in order, sodium *p*-aminobenzoate, tripeleunnamine, and quinine. Sodium *p*-aminobenzoate should not be used if there has been sensitisation to sulphonamides or benzocaine. Yellow soft paraffin was found an effective screen in proportion of 50 per cent. or more but occlusive and "heating" properties sometimes caused discomfort. In proportions below 25 per cent., soft paraffin had intensifying effect in the sunburn spectral range.

In unusual cases of sensitisation (e.g., solar urticaria) due to the visible violet-blue range of the spectrum, those screening substances were only partially effective and the authors suggest the use of opaque powders as indicated in the following formulas:—

(1)

Calamine	...	...	...	...	15
Zinc oxide	...	...	...	...	5
Montonite	...	...	...	...	2
Glycerin	...	...	...	...	5
Distilled water	...	...	...	to 100	

(2)

Titanium dioxide	...	...	...	...	15
Montonite	...	...	...	...	10
Glycerin	...	...	...	...	5
Distilled water	...	...	...	...	to 100

Disorders caused by the wave length range 3300-2900 Å include acute and chronic solar dermatitis, light-sensitisation

by sulphonamides and other substances, xeroderma pigmentosum, lupus erythematosus, etc. In tests on a fifty-eight-year-old man, who suffered with eczema solare apparently caused by light within that wave-length range, the bases used included (a) an anhydrous base made to the following formula:—

Lanette wax SX	...	...	...	...	6.25
Liquid paraffin	...	...	...	...	6.25
Yellow soft paraffin	...	...	...	...	87.5

which itself was effective as a screen against sunburn.

### (b) A hydrous base containing:—

Lanette wax SX	...	...	...	...	3
Liquid paraffin	...	...	...	...	6
Water	...	...	...	...	91

which was only slightly effective by itself, but could be improved in action by the addition of screen substances; and

(c) Ointment of wool alcohols which alone was almost ineffective, but which could be rendered nearly as effective as the hydrous base when screening agents were added. Watery solutions and suspensions of screening substances were all ineffective.

### An Effective Base

Using a Hilger quartz spectrograph they investigated the effectiveness of a number of bases, with and without the incorporation of sodium *p*-aminobenzoate, in absorbing the sunburn-producing rays. The results showed that the anhydrous base A (as (a) above) was completely effective; ointment of wool alcohols and witch hazel cream, B.P.C. were relatively ineffective; and that anhydrous base B composed as follows:—

Lanette wax SX	...	...	...	...	30
Liquid paraffin	...	...	...	...	40
White soft paraffin	...	...	...	...	30

and the hydrous base (as (b) above) were ineffective.

With sodium *p*-aminobenzoate incorporated anhydrous base A and witch hazel cream B.P.C. were completely effective; ointment of wool alcohols was relatively effective; but anhydrous base B and hydrous base were ineffective. Though witch hazel cream B.P.C. has the desired screening properties, it may be "cracked" by certain screening agents, e.g., tannic acid, and the formula for a vanishing cream base (D) given on the following page has therefore been suggested:—

Stearin	...	...	...	...	...	25
Triethanolamine	...	...	...	...	...	1
Glycerin	.....	...	...	...	...	10
Oil of theobroma	...	...	...	...	...	1
Cetyl alcohol	...	...	...	...	...	0.5
Distilled water	...	...	...	...	...	62.5

(To be dispensed in an airtight container.)

The cream was tested clinically as a carrier of (a) 5 per cent. tannic acid and (b) 5 per cent. sodium *p*-aminobenzoate. A layer about 0.1 m.m. thick of the two creams was spread over four areas of skin on the patient, and the total area exposed to irradiation. The areas covered by both creams received complete protection, whereas the bordering areas of skin to which no cream was applied underwent an erythematovesicular reaction.

The authors warn that the sufferer from eczema solare or lupus erythematosus, etc., is often less tolerant than the normal per-

son to the local applications of chemicals as well as to sunlight. The patient should be told that it is impossible to foretell whether a preparation will or will not be tolerated. Trial-and-error methods have to be adopted. Other salicylates that can be used for screening are the benzyl and sodium compounds. The authors state that cream D, though an excellent emulsion and more stable than witch hazel cream, may occasionally fail to be tolerated because of its triethanolamine content. The addition of antihistamine drugs to light-screening creams (with the exception of tripeptenamine, which is useful because of its light-absorption effect) is considered undesirable.

An account of some American work on the photosensitivity of chemicals used in sun-screens appears on p. 246.

## MISCELLANEOUS INQUIRIES

**Liquid Soap.**—D. J. A.—The following formula is for a liquid soap for lavatories:

Sodium hydroxide	.....	40 gm.
Potassium hydroxide	.....	40 gm.
Cottonseed oil	.....	500 c.c.
Alcohol (90 per cent.)	.....	250 c.c.
Water to	.....	2,500 c.c.

Dissolve the caustic alkalis in 250 c.c. of water, add the alcohol, then the cottonseed oil in small portions. When saponification has taken place complete with water to 2,500 c.c., set aside for a week, draw off the clear liquid and add perfume.

**Joint-ill in Lambs.**—S. R. F.—Symptoms of joint-ill usually occur when the affected lambs are seven to fourteen days old. Lameness, with tenderness and heat in the region of the joints and, later, swelling of the joints, are the main symptoms. Affected lambs do not usually die of an acute disease but tend to continue in an unthrifty condition, neither growing nor putting on flesh. The method of infection appears to be contamination of some exposed surface with the organism causing the trouble. Preventive measures include treating the navel of newly born lambs with an antiseptic (to prevent infection by that route). The use of fresh straw for lambings and disinfection of the shepherd's hands after touching affected lambs is recommended. Recent experiments indicate that the sulphonamides have a beneficial effect in controlling joint-ill caused by certain types of streptococci. The sulphonamide compound is given by mouth for several days before actual joint trouble is

detected. Once the organism has become established in a joint, little can be done to save the lamb.

**Shaving Creams.**—E. G.—The following formulas are for (I) lathering and brushless shaving creams:—

### I

Stearic acid	.....	8 c.
Coconut oil	.....	2 c.
Sodium hydroxide	.....	2 c.
Potassium hydroxide	.....	2 c.
Distilled water	.....	15 c.

Dissolve the alkalis in 5 oz. of water, the acid and oil, and slowly pour them into the mixture, stirring all the time. Care must be taken on account of the instantaneous action of the alkali and stearic acid. Heat until saponified (a piece of soap dropped in distilled water remains clear until it begins to dissolve). When it is evident that there is no free fat, the remainder of the water can be added in two ways. It may either be brought to the boil and poured on to the soap, or the soap may be added to the water, left to stand next day, and the whole again heated.

### II

Hard soap	.....	
Stearic acid	.....	
Glycerin	.....	
Caustic potash	.....	
Mucilage of tragacanth	.....	
Borax	.....	
Almond oil	.....	
Spermaceti	.....	
Distilled water	.....	

# AUSTRALIA SURVEYS FOR VEGETABLE DRUGS

By C. M. Smith

THE Commonwealth Scientific and Industrial Research Organisation (C.S.I.R.O.) of Australia is under-taking a national survey to supplement the list of drugs and medicines obtained from Australian vegetation. The survey is co-operative effort. C.S.I.R.O. botanists collect the samples; physiologists in the universities of Melbourne and Queensland test the medicinal properties of new materials discovered; and the Organisation's chemists, with chemists from the Universities of Adelaide, Sydney, Melbourne and Brisbane, examine the chemical properties of the substances.

## Wartime Successes

The survey was prompted by the success of wartime projects to produce in Australia essential drugs of plant origin. For example, the native corkwood trees *Diospyros myoporoidea* and *D. leichhardtii* were found to yield the important alkaloids scopolamine and atropine in greater yields than were obtained from any source previously known. During the 1939-45 war, Australia supplied the greater part of the scopolamine required by the Allied nations. In the present survey several plant species not previously known as yielders of alkaloids have been recorded. Australian plants of known medicinal value include the euphorbia shrub (known to early settlers as "asthma herb") and alstonia (the "ever bark" tree). Australian aborigines chew the leaves of *Duboisia hopwoodii* (auri variety) to drug emus and other animals as they drink from the waterholes. In some areas, leaves of the shrub *Duboisia hopwoodii* contain nicotine, in others none. Nicotine-bearing "pituri" leaves and leaves of some native tobaccos (*Nicotiana* spp.) constitute the aborigines' narcotic. The native centaury is reputed to be a valuable tonic, especially for dyspepsia, and the Flindersia tree is used as a pain remedy. Great interest is being taken in the possibility of finding a plant that might prove a starting-point for making cocaine in quantity.

More than 750 Queensland plants have been examined to date; of these, 145 appear to contain alkaloids, which are being identified. The information so far gathered is encouraging. Queensland was chosen as the first area for survey because it offers diverse types of vegetation and

possesses large tracts of tropical rain forest. The survey project, directed by Dr. C. Barnard (Division of Plant Industry, C.S.I.R.O., Canberra), was joined by the Division of Industrial Chemistry, the departments of physiology and chemistry, University of Melbourne; the department of organic chemistry, University of Sydney; the departments of physiology and chemistry, University of Brisbane; and the department of physiology and chemistry, University of Adelaide.

Investigation of the useful chemical constituents of Australian flora is expected to take many years.

## GERMAN MACHINERY EXHIBITION

At an exhibition of chemical apparatus ("Achema") held in the city of Dusseldorf, West Germany, recently, foreign visitors showed special interest in tablet-compressing and packing machines, principally of heavy type. Many of the machines on view were built in Germany on the basis of American experience. A new soap-wrapping machine shown can turn out 150-80 wrapped soap tablets per minute; can be used with tissue paper, metal foil, cellulose sheeting, cardboard, and glazed paper wrapping materials; and is adapted for including enclosures. Exhibited filling machines and combined weighing and filling machines included a weighing machine with attached "dosage" apparatus for liquids for mixing substances quantitatively. Among the labelling machinery shown was a special machine for printing a variety of surfaces such as tins, lids, parts of cardboard boxes, ampoules, glass tablet containers, etc. Degussa, Hernau, showed a new resistance-thermometer capable of measuring accurately temperatures of up to 750° C; while Kabitz, Spredlingen, Rhein-Hesse, featured a microscopic-reading instrument, the Microvist, which can be used for reading all types of micro copies—sheet film, roll films, plates, etc. Foreign interest in large equipment was mainly concentrated in mixing machines, mechanical agitators, emulsifiers and distillation equipment. A new heating system for chemical apparatus for temperatures up to 600° C. (heat is produced in apparatus walls) was shown by Carl Canzler, Dueren.



## IMPROVEMENTS IN A HOSPITAL DISPENSARY

Alterations in the dispensing section form the first part of a complete reorganisation of University College Hospital pharmacy department

ILLUSTRATED on this page are recent alterations in the dispensary at University College Hospital, London. They comprise the first completed section of a series of improvements that will transform the pharmaceutical department of the hospital. Some of the improvements were planned when Dr. H. Davis was chief pharmacist, though they could not be undertaken owing to war and immediate post-war conditions. Others resulted from a survey of future needs made by the present chief pharmacist (Mr. T. D. Whittet, Ph.C., D.B.A.), in 1948. To the survey, several members of the staff (particularly Messrs. F. H. Newman and W. Bruce) contributed ideas for improvements.

### How Space Was Found

Space was gained for the dispensing section by drastic alterations to the outpatients' department, which adjoins the pharmacy. Many of the fixtures had to be dismantled during the reconstruction, and that gave opportunity to rearrange the whole section. The main emphasis throughout the work has been on securing the most rational arrangement of stock and

on having supplies to hand in the most convenient place for the pharmacists using them. To that end the fittings have been designed to contain the full working range of sterile preparations, tablets and ointments. The fitting for sterile preparations consists of several deep cupboards with glass-fronted sliding doors designed to take all the transfusion fluids in common use. Above the cupboard is a large set of drawers holding a large range of ampoules and other smaller sterile preparations. For storing the maximum number of tablets in minimum space, a tin was designed shaped rather like a book, and having a label holder and handle on the front. The tins can be packed closely together and they take up much less room than bottles of the same capacity. Two fittings, made to hold a large number of the tins, have been constructed near the out-patient window.

The ointment fitting is about 9 ft. long and has six sections with desk-like lids. Each section holds three aluminium containers capable of holding about 10 lb. of ointment, and eight containers of about 5-lb. capacity. Below them are twelve drawers, some fitted to hold the smaller

minium containers and others containing locked tubes or jars of ointment ready for distribution, empty ointment cartons, etc. At each end of each fitting is a porcelain ointment slab surmounting two large drawers held spatulas. Below the drawers are metal bins for cotton waste, tow or other cleaning material.

Always a problem in hospital pharmacy, storage of small items is provided for by fittings, each holding about fifty long fairly shallow drawers. To give sufficient cold storage space for biologicals and antibiotics without the necessity for several refrigerators, a large cupboard has been converted into a cold storage room.

A new bottle-washing unit comprises two large stainless steel sinks joined end to end and having long wide stainless steel draining boards at each end. Each sink fitted with a high-pressure bottle-washing, and under the draining boards are two cupboards fitted with electric meters and provided with wire baskets to take numerous bottles of varied shapes.

#### Access Under Safeguards

Under the arrangements for dealing with in-patients' prescriptions and other requisitions brought down by nurses, the prescription forms are left in a tray provided for the purpose on a counter just inside the door. When dispensed, the preparations are placed by the pharmacist in the appropriate section of a large trolley, which is divided into separate compartments for each ward. The trolley stands near the door and the nurses can collect the completed prescriptions from it at any time during the day. At lunch time, and just before the main staff go off duty in the evening, the trolley is taken by a porter to the wards, and any preparations that have not been collected in the meantime are delivered. Prescriptions brought down after the last delivery and dispensed by the pharmacist on late duty are placed in lockers which, though open to the pharmacy, are fitted with locked doors accessible from the outside of the department. The lockers have the name or number of the ward or department painted on the outside, and each ward is given a key to its appropriate section. The arrangement enables drugs to be left available for the wards after the department has closed, but without danger of their passing into unauthorised hands.

The whole section has been repainted with high-gloss paint in a pink and grey

colour scheme, and fluorescent strip lighting has been introduced throughout. An attempt is being made to standardise all bottles and other containers in use in the department, and, for reasons of cost, the aid of the hospital sign-writer has been enlisted in painting the labels in uniform style on bottles and tins. The result has proved most successful.

The alterations to the department have necessitated re-indexing, and that work is proceeding at present. The scheme to be used is the Linadex visible index of Remington Rand, Ltd.—a type found ideal for quick reference.

## CORRESPONDENCE

### Conference Science Papers

SIR,—I was interested to read in the *C. & D.* of August 12 (p. 197), Xrayser's comments on the list of scientific papers to be presented at the forthcoming meeting of the British Pharmaceutical Conference. He says, "Many of the titles are attractive to all visitors, some are less so. . . ." With this I agree, and I should like to add my opinion that at the Conference itself there should be more papers in the first category and less of the papers which appeal chiefly to a limited number of specialists. I do not in any way wish to belittle the importance of the more specialised papers. By all means publish such work in the "Journal of Pharmacy and Pharmacology," but let us have more "pharmacy for pharmacists" at the British Pharmaceutical Conference. I think, as your contributor points out, the attendance at the Symposium Sessions of recent Conference demonstrates clearly that matters of general pharmaceutical interest appeal, and prove of benefit, to practically all members of the Conference. The future of the Conference depends, or should depend, on a strong backbone of pharmacists. In order to assure this, encouragement should be given to the younger pharmacists to support the Conference, and every consideration should be given to papers submitted by them on pharmaceutical subjects of wide interest. My impression is that at present such papers of general interest to practising pharmacists are regarded by the reviewing committee as inferior to and not to be associated with the more highly specialised research papers. If such is the case it is very regrettable.

Yours faithfully,  
West Bridgford. A. W. BULL.

## BORAX AND BORIC ACID

**I**N ancient times, when borax was principally obtained from the salt lakes of Tibet, it was bartered between that country and India. Ultimately, it found its way to the ancient civilisations of the Middle East, where it became known as a valuable cleansing agent and was used in cosmetics and dental preparations. Called by the Arabs "baurach" or "Alexandrian nitre," it is recorded as having been applied medicinally by the Arab physician Rhazes in A.D. 875<sup>10</sup>. Five hundred years later, with the coming of the Italian Renaissance, borax had again become an important item of trade. The Venetian, Don Alessio Piemontese de Secreti, writes in 1555 of its use by Italian ladies as a cleansing cosmetic<sup>9</sup>. There is no record of the preparation of boric acid until 1702, when Homberg separated from borax a substance which he named "sal sedativum"; this was recognised as the acid of borax by Baron in 1747. In 1775, boric acid was found to be present in the volcanic soffioni or natural steam jets of Tuscany, Italy. Production of boric acid, and later borax, commenced in Italy in 1807. By the early nineteenth century a number of borax refineries were established on the Continent. In 1824, the English journal "The Chemist" included a description of a Dutch process for manufacturing borax from Tuscan crude boric acid. The article concluded: "We suppose it might be advantageous to import boracic acid from Tuscany, and manufacture borax in some part of Great Britain, instead of continuing to import the article from other countries." Such then was the background against which there grew in the nineteenth century an increasing variety of applications of borax and boric acid, in metallurgy, in the manufacture of ceramic glazes and vitreous enamels, for food preservation, and in toilet and pharmaceutical preparations.

### Dusting Powders

Many of the medicinal uses of boric acid arise from its soothing action and the mildly antiseptic properties attributed to it, which have resulted in its inclusion in a variety of dressings for the treatment of inflammatory conditions of the skin and in healing granulating wounds. Borated talcum powders for the nursery are also popular; an old favourite among dusting powders is, of course, the mixture of equal parts of

### BORIC ACID

zinc oxide, starch and boric acid. Eye lotions, boric acid serves to maintain isotonicity and acts as a buffering agent. It is also a constituent of many proprietary anti-perspiration preparations and anti-irritant skin lotions.

Borax is useful in the making of preparations requiring a mild alkali, emulsifying and buffer properties. For example, in barrier creams of the varying and "invisible glove" types it acts as an emulsifier and preservative, while boric acid also forms a useful component of protective layer in certain industrial dermatitis creams. Other preparations whose formulas often include borax are hair dressings, shampoo powders and manent-wave specialities.

### Boric Acid in Medicine

It is of interest to examine some of the published evidence of the value of boric acid in treating clinical conditions, particularly skin ailments. The relative toxicity of the borate radicle in its action as an antiseptic was stressed in a recent report by Goodman and Robin who studied the suitability of various ointments (ammoniated mercury, furazolidone, penicillin, tyrothricin and boric acid) for the treatment of pyoderma. They concluded that, although all ointments gave comparable therapeutic results, boric acid ointment was the only one that was entirely harmless to the skin. With some of the other ointments, contact dermatitis occurred, but promptly disappeared upon use of boric acid ointment. The use of boric acid in foot powders was referred to in a recent paper by Weidman and Gandy in the United States. They conducted experiments on men suffering from intertriginous dermatitis of the feet. Of the medicaments tested, five per cent. boric acid powder in talcum was found to be effective, giving apparent cure in six per cent. of cases and improvement in further fifty-nine per cent. It was regarded as equal in curative properties to phenyl cresyl acetate and far superior to benzyl salicylic acids. A second report<sup>11</sup> claims that ten per cent. boric acid in powdered talc is highly effective in treatment of dermatophytosis of the hands. Strassman<sup>11</sup> has discussed the use of boric acid for the pre-operative sterilisation of surgeons' hands prior to donning gloves and claims a reduction of post-operative

tions when the method is practised. A German worker, Westmeier<sup>14</sup>, used agar plates to culture bacteria on the hands after pre-operative preparation of the hands with boric acid powder. He records boric acid as being more potent than seventy per cent. alcohol only employed for the purpose.

### Reagent for Rubber Gloves

Difference is made in a Home Office Circular issued in 1939<sup>1</sup> to the desirability of powdering with talcum powder or boric acid the inside of rubber gloves worn inries as a precaution against dermatitis.

Boric acid was preferred, since experience at one factory showed that talc did not prevent the arms and forearms of a worker from being affected with various dermatitic ailments. When powdered boric acid was used in place of talc the inflamed spots were healed.

Cyanide dermatitis is an occupational hazard in plating works and certain other industries where cyanide solutions are used. The alkali cyanides are largely hydrolysed in solution and therefore produce lesions resembling alkali burns. One treatment<sup>(1a)</sup> is the application of boric acid ointment or boric acid wet dressings. Boric acid serves admirably as a buffering agent maintaining normal pH of the skin (6.5).

Gifford<sup>5</sup> points out that buffered eye lotions are less irritating, more readily absorbed and more stable. When boric acid is used as the buffering medium it exerts bacteriostatic and fungicidal effects. Lotions of boric acid are widely considered to be harmless and eminently suitable for use in collyria. Gifford's standard eye solution contains boric acid and ammonium chloride and has a pH of approximately 5.5. It is a suitable solvent for certain ophthalmic drugs, such as cocaine and cinchonine hydrochloride, which may cause irritation or precipitation at higher pH values. A similar solution adjusted with borax to approximately pH of tears, forms the basis of some known proprietary eye lotions.

### Boron Acid in Metabolism

Boron is a trace element essential to the growth of all plants, in which it is present in amounts usually varying from 3-50 mgm. per million of dry matter, equivalent to about 0.002-0.03 per cent. of boric acid. On a dry-weight basis, bread con-

tains about 3 p.p.m. of boron (0.002 per cent. of boric acid), while the boron content of fruits is usually much higher, in the region of 10-40 p.p.m. of boron (0.006-0.023 per cent. of boric acid)<sup>3, 4</sup>. The element is therefore an inevitable constituent of human diet, and the normal turnover from food sources has been estimated<sup>8</sup> to approximate to 100 mgm. of boron per week, equivalent to about 80 mgm. of boric acid per day in human beings. It is therefore not surprising to find that boron is a normal body constituent of animals<sup>2, 11</sup>. As yet, however, it has not been proved to play the essential part in animal metabolism that it does in plants. Despite much favourable clinical evidence, the therapeutic value of boric acid has never been thoroughly examined by modern techniques. It seems particularly desirable to assess the importance of the bacteriostatic effect of boric acid under conditions simulating actual use. Accurate *in vitro* studies have not yet been reported in the literature. Such evidence needs to be correlated with data on systemic effects before a proper evaluation can be made.

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**Surfeit of Streptomycin.**—The Central Bank of the Philippines has instructed banks to cease extending credits for the importation of streptomycin, apparently because large stocks are held in the islands.

## TRADE REPORT

**Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.**

### 28 Essex Street, W.C.2, Aug. 16

DEMAND for PHARMACEUTICAL and FINE CHEMICALS continues heavy, due, no doubt, to stock piling. In the CRUDE DRUGS market buyers are awaiting the new season's production of CAPE ALOES; so far there are no shipments. The position of new crop ERGOT is obscure; there are no offers at origin and at the present spot price no business is being done. MENTHOL remains very firm with no offers at source and few for spot. MERCURY is very firm and prices have again advanced. RHUBARB sales have eased as shipments are coming in.

Reports on the Tunisian OLIVE crop are not as favourable for quantity as previously estimated, due to the fact that blight has affected most of the trees. It now appears that only about 50 per cent. of the anticipated yield will be saleable or usable and this quantity is far below present requirements. Because of this shortage and high cost of refining the oil, it is thought that the position of TEASEED OIL will remain unaffected in Britain for some months to come, even in the event of olive oil coming off control. Quantity prices for ALMOND OIL show a slight fall. The markets for ESSENTIAL OILS continue firm. Prices are awaited for LAVENDER OIL from new season's crop, but they are expected to be higher owing to adverse reports on the crop. ANISE OIL is well up and BERGAMOT, CASSIA, LEMON and SPEARMINT OILS have also advanced. PEPPERMINT continues quiet.

### U.S. Drug and Chemical Report New York, August 11

WHILE quotations for most BASIC CHEMICALS show no change, the undertone remains strong, due to shortages, heavy demand and possible military requirements. The industry is feeling the pinch in the supply of SODA ASH, BENZOL, PHENOL, SODIUM ACETATE, etc.; the strike which caused the closing of plants of two of the large suppliers of caustic soda, soda ash and chlorine has not yet been settled but a fairly large tonnage of imported soda ash is expected to arrive shortly, the price being 6 cents per lb., including duty. Local prices for QUICKSILVER immediately responded to the firmer tone in London and advanced by \$5 per flask. Firmer conditions prevail throughout the FINE CHEMICAL market, with the advancing COCOA-BUTTER bringing the article up to a new high level for the year. MENTHOL spot prices are firmer, ranging from \$12.65 to \$12.75 per pound, according to quantity. Among the CRUDE DRUGS, all WAXES are strong with prices advancing further. ESSENTIAL OILS are comparatively quiet fol-

lowing the recent strengthening, although lemongrass continues to harden with the price advancing to \$2.5 delivered.

### Pharmaceutical Chemicals

ACETANILIDE.—Crystals in 1-cwt. lots are quoted at 2s. 1½d. per lb., and powder 2s. 2½d. per lb.

ACETONE.—Makers' contract rates per ton are as follows:—In 40/50 gall. drums Less than 1 ton, £70; 1 ton, £69; 10 tons to 50 tons, £68; 50 tons and over, £66. Smaller quantities are quoted at £90 per ton in 5-gall. and £85 per ton in 10-gal. drums.

p-AMINORENOZOIC ACID.—Makers' prices are from 35s. to 38s. 6d. per lb. Tl SODIUM SALT is 37s. 6d. to 41s. per lb.

AMINOPHYLLINE.—28-lb. lots, 56s. per lb.

AMMONIUM CHLORIDE, B.P.—Steady. Makers quote 1-cwt. lots at 9½d. per lb.

ASCORBIC ACID.—1-kilo lots for the home trade are £14 per kilo; 500-gm., £14 10 per kilo. In good request.

ATROPOINE.—Current rates per oz. are ALKALOID, 43s. 9d.; 4-oz., 43s. 3d.; 25-oz. 42s. 9d. SULPHATE, 35s. 3d.; 4-oz. 34s. 9d.; 25-oz., 34s. 3d.; METHYL BROMIDE and METHYL NITRATE, from 60s. to 65 per oz. as to quantity.

BARBITONE.—Steady. Rates per lb. as follows:—1 cwt., 35s.; 28 lb., 36s 7 lb., 37s.; 1 lb., 38s. The SODIUM SALT is per lb. more than the base.

BENZOCAINE.—Quotations for 28-lb. lots are now at 40s. per lb.

BISMUTH SALTS.—A moderate demand reported at the recently increased price. Rates for CARBONATE are as follows:—

QUANTITY	CONTAINERS		
	1-lb.	7-lb.	28-lb.
	s. d.	s. d.	s. d.
1 cwt.	18 3	18 0½	17 11
28 lb.	18 6	18 3½	18 2
7 lb.	20 1	19 10½	—
4 lb.	20 9	—	—
1 lb.	21 4½	—	—

SALICYLATE is 2s. 8d.; SUBGALLATE, sixpence; and SUBNITRATE, 2s. 6d. per lb. less than above scale.

CALCIFEROL.—1-kilo lots (in 25-gm. ampoules) are quoted at 5s. 6d. per gm.

CALCIUM GLUCONATE.—Quantities of upwards of 3 cwt. are quoted at 3s. 6d. per lb.; 1 cwt. to 2 cwt., 3s. 7d. per lb. smaller quantities up to 3s. 10d. per lb.

CARBROMAL.—B.P.C. quality of British manufacture is offered at about 26s. per lb. for 1-cwt. lots.

**HLORAMINE.**—B.P. grade is from 2s. 5d. s. 9d. per lb. and 98 per cent. technical s. 2½d. to 2s. 5d. per lb., according to quantity.

**INCHOPHEN.**—1-cwt. lots are quoted at per lb., with smaller quantities up to 10s. per lb.

**OCAIN.**—Current rates per oz. are : **ALOID**, CITRATE and SALICYLATE, both  $\frac{1}{2}$ -oz., 89s.;  $\frac{1}{2}$ -oz., 85s.; 1-oz., 82s. 6d.; 2-oz., 80s. 6d.; 4-oz., 79s. 3d.; 8-oz., 3d.; 16-oz., 75s. 3d.; tins, 25-oz., 9d. **HYDROCHLORIDE**, NITRATE and PHATE, bottles,  $\frac{1}{2}$ -oz., 79s.;  $\frac{1}{2}$ -oz., 75s.; 72s. 6d.; 2-oz., 70s. 6d.; 4-oz., 3d.; 8-oz., 68s. 3d.; 16-oz., 65s. 3d.; 25-oz., 64s.

**EXTROSE.**—Steady. MONOHYDRATE, (in less than 5-cwt. lots), 28-lb. tins quoted at 40s. per tin; 14-lb. tins, 6d.; 7-lb. tins, 11s. 6d.; less 12½ per cent. to wholesalers, delivered. In quantities of 5 cwt. and over, 28-lb. tins are 2s. b. tins, 1s. 6d., and 7-lb. tins, 1s., less than above prices. ANHYDROUS, B.P. (in less than 5-cwt. lots), 28-lb. tins, 42s. per 14-lb. tins, 22s. 6d.; 7-lb. tins, 12s.: 12½ per cent. to wholesalers, delivered. Quotations for quantities of 5-cwt. and over the same as for the monohydrate.

**LYCERIN, B.P.**—Current rates are as follows :

minimum varies off tract of	Under 1 cwt.	1 cwt	5 cwt	1 ton	5 tons					
		under 5 cwt.	under 1 ton	5 ton	25 tons					
		—	1 cwt	1 cwt	5 cwt.	10 cwt.				
r cwt.		s. d	s. d	s. d	s. d					
s.		s. d	s. d	s. d	s. d					
4-lb.	202	6	198	6	194	0	189	6	188	0
8-lb.	200	6	196	0	192	0	187	6	186	0
6-lb.	196	6	192	0	188	c	183	6	182	0
JMS										
1-cwt.	—	179	6	175	6	171	0	169	6	
½-cwt.	—	177	0	173	6	169	0	167	6	
5-cwt.	—	—	—	173	0	168	6	167	0	
0-cwt.	—	—	—	172	0	168	0	166	6	

tons and upwards (minimum delivery contract of 2 tons), 14-lb. tins, 187s.; lb., 185s.; 56-lb., 181s.; 1-cwt. drums, 8s. 6d.; 2½-cwt., 166s. 6d.; 5-cwt., 166s.; cwt., 165s. 6d. Extra charges are made on smaller deliveries ex contract of from to 2s. Tins and cases free, glass packages and iron drums charged extra and returnable. Drums will be credited in full if returned carriage forward in good condition within six months of date of issue; if retained beyond this period or actual value only will be credited, which will not in any case exceed two-thirds of the invoice price. Terms: 2½ per cent. monthly account, except where stated. (Refined pale straw industrial grade 5s. per cwt. less than above).

**GUAIACOLS.**—Liquid and crystal are from 15s. 6d. to 17s. 6d.; and carbonate from 16s. 6d. to 18s. 6d. per lb.

**HEXAMINE.**—B.P. is offered at from 1s. 8d. to 2s. per lb., as to quantity.

**HEXOBARBITONE.**—Quotations are in the region of 77s. per lb. for small quantities.

**MAGNESIUM CARBONATE.**—HEAVY, B.P., in 1-cwt. lots is quoted at 131s., and light, B.P., at 115s. 10d. per cwt.

**NICOTINIC ACID.**—Quotations are about 40s. to 42s. per lb., as to quantity.

**PARDICHLOROBENZENE.**—For B.P.C. quality, 1s. 7d. per lb. is quoted, for small quantities.

**PEPTONE.**—Importers' quotations are from 13s. to 15s. per lb., as to quantity.

**PHOSPHATES.**—Steady. Makers' rates per lb. are as follows :—SODIUM, B.P., 1 cwt., 6d.; 28 lb., 7½d. SODIUM ACID, B.P., crystals, 1 cwt., 1s. 9d.; 28 lb., 2s.

**PILOCARPINE.**—Lower prices are asked for British material. HYDROCHLORIDE and NITRATE are now quoted at 30s. 6d. per oz. in 25-oz. lots.

**POTASSIUM ACETATE, B.P.**—Fine granular is 2s. 1½d. per lb. in 1-cwt. lots.

**POTASSIUM FERMANGANATE.**—Current home-trade rates for material packed in 1-cwt. drums are as follows :—

QUANTITY	B.P., per lb.	TECHNICAL, per cwt.
1 cwt.	1s. 6d.	153s.
3 cwt.	1s. 5½d.	149s.
5 cwt.	1s. 5d.	144s.
1 ton	1s. 4½d.	139s. 6d.
5 ton	1s. 4d.	135s.
10 ton	—	124s.

Net, delivered nearest railway station in Great Britain; drums charged extra and returnable. In 5-cwt. drums prices are 1s. per cwt. less than above. Contracts: 1 ton upwards, six months.

**VANILLIN.**—Current rates per lb. are : 5 cwt., 30s.; 1 cwt., 30s. 3d. 56 lb., 30s. 6d.; smaller quantities, 30s. 9d.

## Crude Drugs

**AGAR.**—Kobé No. 1 on the spot is quoted at from 8s. 9d. to 9s. per lb.; for August-September shipment, 5s. 6d. c.i.f., indicated.

**ALOES.**—Firm. No offers of spot Cape; forward, 130s. per cwt., c.i.f., nominal.

**ASAFETIDA.**—Persian on spot is quoted at from £13 to £20 per cwt., as to grade.

**BALSAMS.**—Canada on the spot is firm at 17s. per lb., upwards. Pará *Copaiba*, scarce on the spot, 8s. per lb., nominal; forward, nominal. San Salvador *Peru* is offered at from 7s. per lb., duty paid. *Tolu* is quoted at 18s. to 18s. 3d. per lb., spot.

**BELLADONNA.**—Steady. Imported root is offered at from 3s. 9d. to 4s. 9d. per lb., as to test; leaves (or herb), from 4s. to 4s. 6d. per lb., spot, duty paid,

**BISMUTH.**—In minimum 2-cwt. lots the rate is 14s. 6d. per lb.

**BUCHU.**—Short-round leaves are steady at from 2s. 8d. to 2s. 9d. per lb. on the spot; for shipment, 2s. 4d., c.i.f.

**CAMPHOR.**—A firm market. Chinese  $\frac{1}{4}$ -oz. tablets are quoted from 5s. 2d. to 5s. 6d. per lb., duty paid, spot London; from Hong Kong, for August-September shipment, 4s. 10d., c.i.f. Chinese refined powder (B.P.) is from 4s. to 4s. 1 $\frac{1}{2}$ d., duty paid (in bond, 3s. 8d.); August-September, 3s. 6d., c.i.f. B.B. grade, on spot, 3s. 9d., duty paid. 2 $\frac{1}{2}$ -lb. slabs on spot are offering at 4s. 6d. per lb., duty paid.

**CASSIA BARK.**—Firm. Whole is quoted at 94s. per cwt., c.i.f., for August-September shipment from Hong Kong.

**CHILLIES.**—Sierra Leone on the spot, quoted at 295s.; August-September shipment, 265s., c.i.f. Nigerian, August-September shipment, 230s., c.i.f. Mombasa, for shipment, 280s.

**CINNAMON.**—Ceylon OOOO quills, to arrive, are nominal at 3s. 8d.; quillings, 2s.; featherings, 1s. 9d., c.i.f.

**ERGOT.**—Portuguese is nominal at 32s. 6d. per lb., c.i.f. No offers from source.

**GALANGAL ROOT.**—Hong Kong is quoting 110s. per cwt., c.i.f., for August-September shipment.

**GALLS.**—Chinese are offered at 176s. per cwt., c.i.f., for August-September shipment from Hong Kong.

**GAMBOGE.**—Siam pipe is offered at £40 per cwt., duty paid; powder is quoted at 11s. 6d. per lb., spot London.

**GINGER.**—Firmer. African new-crop quoted at 320s. per cwt., spot; August-September shipment, 310s., c.i.f. Jamaican, No. 3, 475s. per cwt., spot, nominal.

**GUAIACUM RESIN.**—Spot quotations are at 3s. 9d. per lb.; to arrive, 3s. 3d., landed.

**IPECACUANHA.**—Firm. Nicaraguan on the spot is quoted at 37s. 6d. per lb.; for shipment, 36s., c.i.f. Colombian is 32s. per lb. on the spot; forward, unable to offer.

**MACE.**—West Indian pale blade is quoted at 7s.; for shipment, 6s. 7d., c.i.f.

**MENTHOL.**—Chinese on spot, sellers are asking 96s. to 97s. 6d. per lb., duty paid (in bond, 92s. to 93s. 6d.); August-September shipment, 84s. 6d. nominal, c.i.f.

**MERCURY.**—Spot quotations are from £19 10s. to £21 per flask, ex warehouse, according to quantity.

**NUTMEGS.**—West Indian 80's quoted at from 3s. 3d., on spot; sound unassorted, 3s., spot. East Indian 80's nominal at from 3s. 3d. per lb., c.i.f. Continent.

**PAPAIN.**—East African white, scarce on spot, is 17s. to 17s. 6d. per lb.: Ceylon brown, from 11s. to 12s. per lb., spot.

**RHUBARB.**—Chinese rough-round on the spot is offering at from 8s. 3d. to 8s. 6d. per lb., duty paid.

**SEEDS.**—Turkish ANISE is offered 157s. 6d. per cwt., duty paid, spot London. CARAWAY.—Dutch is now quoted at 1s. per cwt., duty paid in London. CELERY Market is unchanged. CORIANDER.—Market remains firm. Buyers not paying high prices now asked for new crop. latest price received for August shipment is 140s. to 145s. per cwt., c.i.f. Long Indian, poor quality, is offering on spot at 95s. per cwt. CUMIN.—Spot sellers Cyprus at 185s. per cwt., ex warehouse London or Liverpool. New-crop Cyprus August shipment, quoted at 177s. 6d. per cwt., c.i.f. London or Liverpool, and Morocco at 215s. per cwt. DILL.—Spot India has advanced to 75s. per cwt., ex warehouse, London. FENNEL.—Spot sellers asking 95s. per cwt., in London. FEATHERS.—Market unchanged. Sellers Morocco at 52s. 6d. per cwt., duty paid, spot London or Liverpool. Indian 57s. 6d., spot London.

**SENNA.**—Indian is quoting new-crop leaves for October-November shipment the following (c.i.f.) prices:—Pribold, 1s. 1 $\frac{1}{2}$ d.; No. 1, 11 $\frac{1}{2}$ d.; No. 10 $\frac{1}{2}$ d.; No. 3, 8 $\frac{1}{2}$ d. per lb. F.a.o., No. 10 $\frac{1}{2}$ d.; No. 2, 9 $\frac{1}{2}$ d.; No. 3, 8 $\frac{1}{2}$ d.; grade No. 4, 7 $\frac{1}{2}$ d.; ungraded, cleaned, 7 $\frac{1}{2}$ d., stalky, 7d. per lb. F.a.q. pods are stalky and hand-picked, 1s. 0 $\frac{1}{2}$ d. per lb., c. Alexandria new-crop, No. 2 pods, 4s. per lb. nominal.

**SHELLAC.**—F.O.T.N. pure, on the spot is now quoted at 335s.; F.O. Standard 350s.; and fine orange, 365s. to 410s. per cwt., ex warehouse London.

**STRAMONIUM.**—Indian, from origin, 4 to 5d. per lb., c.i.f., indicated.

**STROPHANTHUS Kombé.**—100 per cent., are at 18s. 6d. lb.; *gratus*, 18s. to 18s. 6d.

**STYRAX.**—Spot quotations for crude at from 6s. 9d. to 7s. per lb., duty paid.

**TONKA BEANS.**—Trinidad, frosted on spot, quoted at 7s. 6d. per lb. Pará fros. 5s. 6d. to 6s. per lb., spot, as to holder.

**TRAGACANTH.**—White ribbon, selected quoted at £140 to £145 per cwt.; No. £130; No. 2, £117; No. 3, £105, spot.

**WAXES.**—Firm. **BEES'.**—Dar-es-Sala 425s. per cwt., spot; August-September shipment; 420s., nominal, c.i.f. Bengal on spot, 410s., duty paid (375s., in bond for shipment; 375s., c.i.f. Abyssinia 410s. per cwt., spot; for shipment, 37s. c.i.f.

**CANDELILLA.**—Spot is now 485s. per cwt. **CARNAUBA.**—Fatty grey on spot August delivery, 825s. per cwt.; August-September shipment, 785s., c.i.f.; September-October, 775s., c.i.f. Prime yellow 1,030s. per cwt., nominal, spot; August-September shipment, 1,000s., c.i.f. **MONTREICHEK.**—Reibek is 135s. per cwt. on the spot for shipment, 130s., c.i.f. **OURICURI.**—impurities is scarce on spot, 700s. per cwt. nominal; 0.5 per cent. for August-September.

shipment, 655s., c.i.f., nominal; 2.1 per cent. impurities, 690s. per cwt., spot. 6.7 cent., 660s. per cwt., spot.

## Essential and Expressed Oils

**ALMOND.**—Expressed sweet oil (B.P.) on spot is from 5s. 6d. to 6s. per lb.; 2 per cent. essential oil, s.a.p., on the spot, is 24s to 40s. per lb., as to grade.

**ANISE.**—For drums on the spot, 10s. 6d. per lb. is asked. Higher prices onward shipment.

**CERGAMOT.**—Spot quotations are from 6s. per lb., as to quantity.

**ASSIA.**—Firm. Spot quotations are normally 18s. 6d. per lb.; August-September, 18s., nominal, c.i.f.

**EDARWOOD.**—East African is quoted at 6d. to 4s. 6d. per lb., spot London; 3s. 3d. per lb., spot.

**TRONELLA.**—Firm. Ceylon is quoted 9s. per lb., spot; July-August shipment, 8s. 3d., c.i.f.; Java, for shipment, c.i.f., quoted.

**LOVE.**—Firm. English-distilled bud oil quoted at from 15s. 6d. to 16s. 6d. per lb. as to quantity; Madagascar bud oil, 6d., duty paid, nominal. Zanzibar rectified oil on spot is quoted at 12s. 6d. b.

**DRIANDER.**—English-distilled is quoted about 250s. to 260s. per lb. Dutch on spot, 170s. per lb., duty paid.

**INGER.**—English-distilled is from 170s. 300s. per lb., as to grade and seller, rectified oils, 170s. per lb., spot.

**AVENDER.**—French, 40-42 per cent., nominal price from new season's crop, 25s. 6s. 6d. per lb. Spanish spike is offered from 9s. to 12s. per lb., spot.

**AVANDIN.**—Supplies on the spot are available at from 13s. to 14s. per lb.

**LEMON.**—Sicilian hand-pressed, 4 per cent. citral, on the spot, is quoted at from 32s. to 38s. per lb.

**LEMONGRASS.**—A firmer market. On the spot, supplies are offered at from 16s. to 17s. per lb.; August-September shipment, 14s. 10½d., c.i.f.

**PALMAROSA.**—Spot quotations are from 47s. 6d. to 50s. per lb.; to come forward, 43s. 6d., c.i.f.

**PEPPERMINT.**—Quiet. Spot quotations for Chinese (*M. arvensis*) are from 38s. to 39s. per lb.; July-August, 32s., c.i.f. *Piperita*, B.P., is quoted at from 52s. 6d. to 57s. 6d. per lb., spot.

**PIMENTO BERRY.**—English-distilled oil, from 50s. to 55s. per lb. and upwards as to quantity; No. 2, 27s. per lb., spot. Foreign, 25s. to 30s. per lb., spot.

**ROSE.**—Bulgarian otto is available on the spot at from 240s. to 260s. per oz.; Turkish, from 225s. per oz.; French (de Mai) absolute, 80s. per oz.

**SANDALWOOD.**—Mysore oil on spot is from 72s. 6d. to 74s. per lb. East Indian, Dutch-distilled (95 per cent. santalol), 95s. to 97s. 6d. per lb., duty paid. West Indian is available at 19s. 6d. per lb., spot.

**SASSAFRAS.**—Brazilian natural is quoted at from 5s. 3d. to 6s. 6d. per lb., spot, duty paid.

**SPERMINT.**—Spot quotations for B.P.C. quality are from 33s. 9d. to 38s. per lb., duty paid.

**TEASEED OIL.**—19s. 6d. per gall., spot, ex refinery.

**TI-TREE.**—Supplies are offering at 6s. per lb., ex wharf London.

**VETIVERT.**—Bourbon on spot is quoted at from 110s. per lb., as to grade.



**ENDER CUTTING IN NORFOLK.**—From Norfolk a fair crop of lavender is reported this year. The picture is of a field at which harvesting is in progress near Hunstanton.

## TRADE MARKS

(From the "Trade Marks Journal," August 2)

*For vegetable extracts for use in the perfumery industry* (1).—"FIXODENE"; by W. J. Bush & Co., Ltd., London, E.8; 685,196.

*For photographic chemicals* (1).—"KODELIO"; by Kodak, Ltd., London, W.C.2; 688,641. "SUPERMET"; by Ilford, Ltd., Ilford; 688,749.

*For non-medicated toilet preparations* (3).—"KYPRE DE LANCOME"; by Lancome S.A., Paris; 680,356.

*For toilet soap* (3).—"DELV" on label device; by Lifeguard Products, Ltd., London, E.C.4; 687,898.

*For all goods* (3).—"RED SHOES"; by Cavalade Beauty Preparations, Ltd., London, S.W.11; 688,035.

*For agricultural and horticultural spraying preparations* (5).—"SULSOL"; by Boots Pure Drug Co., Ltd., Nottingham; 678,023.

*For pharmaceutical preparations* (5).—"ESKADIZINE"; "ESKALOSE"; "ESKADIAMER"; "BENZEBAR"; "ESKACILLIN"; "ESKAMEL"; by Smith Kline & French International Co., Pennsylvania; 685,232. "BEREX"; by Berex Pharmaceutical Co., Toronto; 682,192. "CAFERGOT"; by Sandoz, A.G., Basle; 685,321. "FORTICULIN"; by Hough, Hosen & Co., Ltd., Manchester; 687,508.

*For all goods* (5).—"PRAGMATAS"; by Smith, Kline & French International Co., Pennsylvania; 685,225. "AVLOCID"; "MEPAVON"; by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.1; 688,325-26.

*For veterinary preparations* (5).—"CATISAN"; by International Serum Co., Ltd., London, N.W.4; 686,652.

*For insecticides* (5).—"TETRAX"; by Plant Protection, Ltd., Yalding; 687,131. "PRESSKIL"; by Walter Gregory & Co., Ltd., Wellington; 689,024.

*For oral and nasal inhaling appliances* (10).—"ORALTOR"; by Smith, Kline & French International Co., Pennsylvania; 685,224.

*For toilet brushes* (21).—"DUK" in distinctive lettering; by Addis, Ltd., Hertford; B689,082.

## COMING EVENTS

Wednesday, August 23

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Methodist Church Hall, Pinney Road, North Harrow, at 7.15 p.m. Emergency meeting. Discussion on man-power report and new charter.

THE INSTITUTE OF PACKAGING have initiated an educational course for junior executives in the package using and packaging industries. The first course will be held at Shell Mex House, Strand, London, W.C.2, October 23-27. Firms wishing to nominate staff should apply immediately to the secretary, 55 Moorgate, London, E.C.2.

WOLVERHAMPTON CHEMISTS' ASSOCIATION are holding their annual outing (to Warwick Castle and Stratford-on-Avon) on August 31. Coach leaves Wulfruna Street, Wolverhampton, at 2.15. Tickets, 20s. each, inclusive, are obtainable from Mr. J. Foster Taylor, Showell Circus, Wolverhampton.

## NEW BRITISH PATENTS

*Preparation of Steroid Compound* Merck & Co. Inc. No. 27440 (20/11/48). The invention relates to preparation of esters of 3-hydroxy alkoxy- $\Delta$  9-11-cholenic acid, useful as intermediates in the preparation of dehydrocortico-sterone, Kendall's compound and the like. The method consists in reducing the unsaturated keto-steroid hydrogen in a lower aliphatic alcohol medium, with suitable catalyst and mineral acid to form the unsaturated hydroxysteroid. It also relates to the reduction of an alkyl hydroxy ketocholenate in similar manner.

*Tyrothricin Preparations*.—H. L. Beck & Co., Copenhagen. No. 21643/ (1.11.48). — According to the invention suitable stable aqueous preparations of tyrothricin or its components may be prepared by using as solubiliser a quaternary ammonium composed of the type  $R^+Q^-w^+$

$R$  is an alkyl group with 8-18 C atoms, an anion of inorganic or suitable organic acid, and  $Q$  is a heterocyclic compound containing ring-linked basic nitrogen e.g., pyridine, quinoline or derivatives. Creams may be prepared from the product, especially when the aqueous phase is the outer phase. Different vasoconstrictors may be incorporated.

*Preparation of Organic Compound* Sterling Drug Co. No. 20909/ (1.10.48). — The invention relates to triaryl amines, their water-soluble salts, intermediates. Claims are made for method of preparing compounds of formula as inset where  $R$  is aryl or thio-CN,  $Y$  is an alkylene bridge, two-three carbon atoms,  $R-C-Y-N=B$ ,  $N=B$  is aliphatic triaryl amino group,  $R'$  is cyclo-pentenyl- $-hexanyl$ . It is formed by reacting on the latter with the YNB group and hydrogen in the presence of a strong basic catalyst. For example,  $N=B$  may be phenylidyl or pyrrholidyl or dialkylamine, phenyl,  $Y$  having two carbon atoms. A native forms also given.

*Tuberculosis in Poultry*.—A new number in the series Animal Health Leaflets of the Ministry of Agriculture and Fisheries "Tuberculosis in Poultry" has been published by H.M. Stationery Office.

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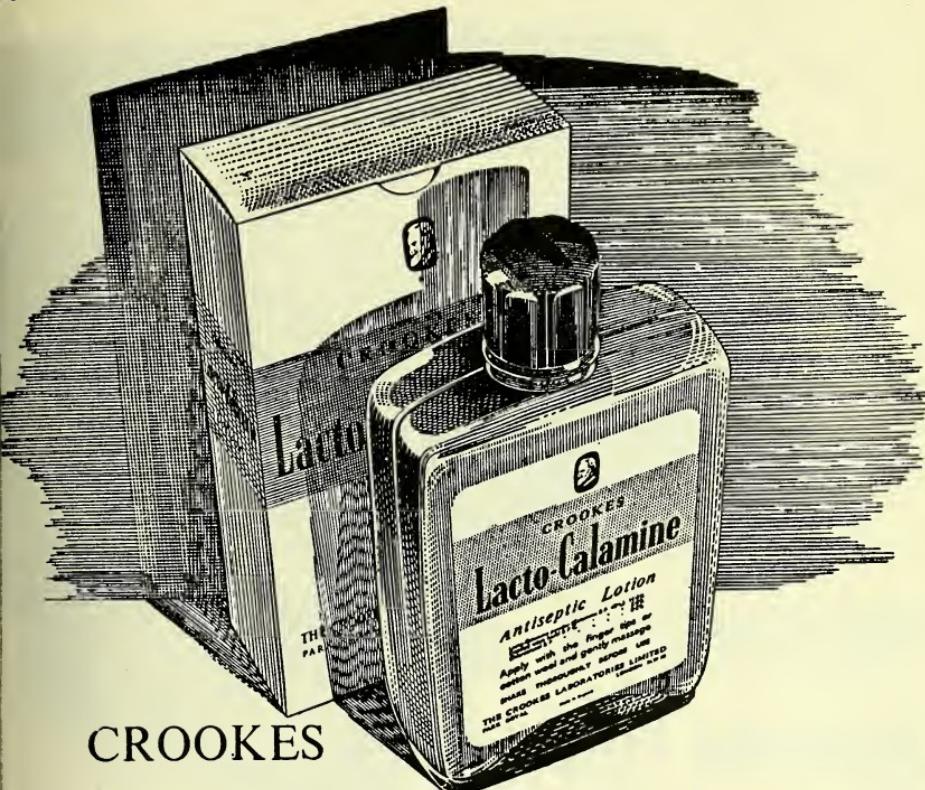
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- Acetomenaphthone with Nicotinamide
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- Ascorbic Acid
- Calciferol 50,000 units
- Calcium with Vitamin D

- Calcium Gluconate with Vitamin D
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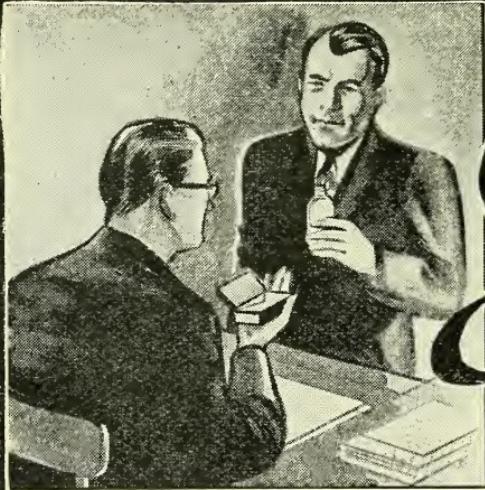
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## VENO DRUG CO., LTD., ST. HELENS, LANCASHIRE

*The Veno Drug Co., Ltd. is the authorised selling agent for Phensic Ltd.*



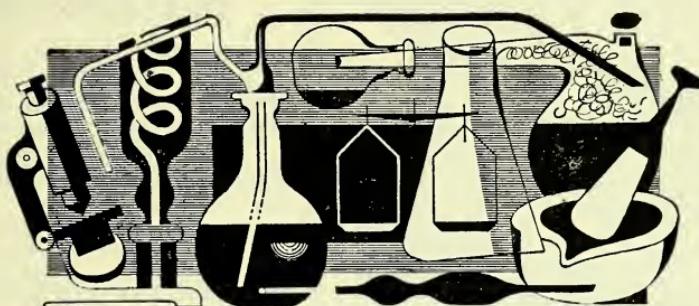
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WRITE US ABOUT YOUR SPECIAL NEED

Manufacturing Chemists  
**ARTHUR·H·COX & CO. LTD.**

BRIGHTON 7, SUSSEX • ENGLAND

**B.D.H. POLICY : 3**

# Research and analytical control

The reputation enjoyed by B.D.H. products throughout the world imposes heavy obligations in the use of analytical and research techniques. Analytical control is in the hands of a competent team of workers, assisted by the most modern and comprehensive scientific apparatus, applying quantitative and qualitative analysis to B.D.H. products and the substances involved in their manufacture. The company's research work for the improvement of processes of manufacture and for the widening of the range of available substances has had far-reaching effects on medicine and pharmacy. To quote but few examples — the Carr-Price test

for standardisation of vitamin A, the development of processes for the manufacture of vitamin A by molecular distillation, work on the  $\alpha$ -glycerol ethers which led to the discovery of chlorphenesin and its incorporation in 'Mycil' the non-mercurial fungicide, and of mephenesin a constituent of 'Myanesin' Elixir for the treatment of spastic and hyperkinetic conditions. A recent triumph of research was the isolation of vitamin B<sub>12</sub> from routine batches of 'Anahæmin' and the subsequent introduction of 'Anacobin' the first solution of pure crystalline vitamin B<sub>12</sub> to be made commercially available in Great Britain.

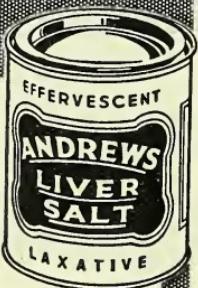
**B.D.H. MEDICAL PRODUCTS · DISPENSING CHEMICALS  
GALENICALS · PILLS · TABLETS · INJECTION SOLUTIONS**

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*Quickest  
selling  
Saline*



Unstinted time and money have been invested in making Andrews a stable and quick-selling line, and to-day Andrews has a firm hold on the goodwill of the public. For you, Andrews means satisfied customers. Imitations may come, and imitations may go, but customers' demand for Andrews goes on for ever, because

**It is nationally advertised**

**It suits the popular taste**

**Its packing and keeping qualities  
are guaranteed**

*See that your stocks are adequate  
to meet extra demand created  
by increased advertising*

**ANDREWS**  
FOR  
Inner Cleanliness  
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*Largest sale in the World*

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Reg'd Brand

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GUARANTEED B.P. QUALITY

Mag. Carb. Levis. Mag. Carb. Pond.  
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**SUNBURN**  
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**Pruritus**  
**etc.**



# Caladryl

'Caladryl' is a smooth, creamy lotion containing 1 per cent. of the anti-histamine and anti-pruritic agent, 'Benadryl', together with calamine, camphor and glycerin. The lotion has emollient properties but is non-greasy. 'Caladryl' is effective in allaying the burning and irritation of sunburn and in relieving itching due to insect bites. It also relieves pruritus associated with urticaria, dermatitis, minor skin affections, measles and chicken-pox.

For infants, 'Caladryl' may be used for napkin-rash and teething-rash.

Small and 80 fluid ounce bottles. M.R.P.: 4/- and 75/-  
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A NEW Parke  
 Davis Product

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HOUNSLOW, MIDDLESEX. Tel.: HOUNslow 2361. Inc. U.S.A., Liability Ltd.



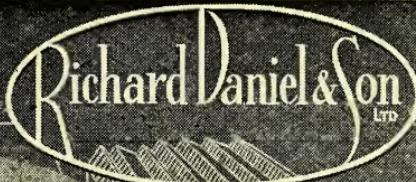
*Another success  
for Bristow's-  
and for You!*

Bristow's Lanolin Shave is selling rapidly. Men are quick to appreciate the value of Lanolin for soothing and comforting the skin. And, to increase sales still more, powerful press advertising begins this month. So make sure you profit from this fast-selling line. Order good stocks and give them a good display. Our representative will gladly provide show material.

# Bristow's LANOLIN SHAVE

## TRADE TERMS

	Retail Selling Price (Inc. P. Tax)	Standard		Intermediate		Best		Purchase Tax	
		Quan. (doz.)	Price Doz.	Quan. (doz.)	Price Doz.	Quan. (doz.)	Price Doz.	Per Doz.	Rate
LANOLIN SHAVING CREAM	2/-	1	13/6	3	12/9	6	12/-	4/6	33½%
LANOLIN SHAVING STICK : (Cased)	1/9	1	11/10	3	11/6	6	11/2	3/11½	33½%
(Refill)	1/-	1	6/6	3	6/3	6	6/-	2/2	33½%



PROPRIETARIES  
SUNDRIES DRUGS  
TABLETS & PILLS

FOR  
CHEMISTS

*Manufacturing  
Chemists*

Office & Works Mansfield Road Derby Telephone 4266 (4 lines) Branch Warehouse Grosvenor St. Ashton-under-Lyne Telephone 2816 (2 lines)

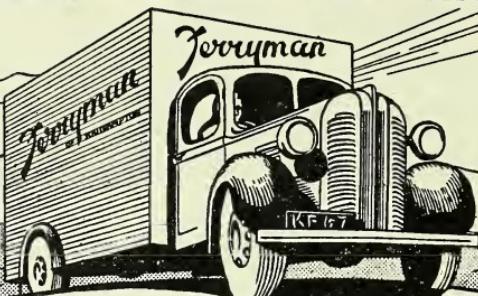
# DIABETICS *can enjoy these specially prepared* FRUIT SQUASHES

MAKERS of the famous Rose's Lime Juice now prepare Lemon and Orange Squashes without added sugar for Diabetics, 3/- a bottle.

**ROSE'S DIABETIC**  
LEMON AND ORANGE SQUASHES



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# I took **VULFIX** straight on the chin!

And I kept it there, whipping up a  
whisker wilting lather in a wink!

**VULFIX "SERVICE" obtainable  
through all wholesalers**

Retail at 3/11, 5/11, 6/9, 8/6 each



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PURE BRISTLE

THE BRUSH WITH THE 2 YEARS GUARANTEE

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# BIOLOGICAL MBL PREPARATIONS



THE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTELY  
IDENTICAL WITH THAT OF PRE-WAR PREPARATION

cause of our heavy purchases immediately before war broke out. Our stocks  
still considerable and the high MBL standard will be fully maintained.

HERE IS NO SHORTAGE OF ANY OF OUR PREPARATIONS

		(inclusive of Tax)	CHEMISTS' PRICE		Net + Purchase Tax	Net + Purchase Tax
			Per unit	Per dozen		
TIPEOL						
MENT	4 oz. tube	... ...	7/5	4/2½ + 1/5	50/5	+ 16/10
	40 gr. "	... ...	3/8½	2/1½ + 8½	25/3	+ 8/5
	20 gr. "	... ...	2/1	1/2 + 5	14/-	+ 4/8
UID	40 c.c. bottle	... ...	3/8½	2/1½ + 8½	25/3	+ 8/5
HHTHALMO-ANTIPEOL						
gr. Nozzled Tube	... ...	... ...	3/8½	2/1½ + 8½	25/3	+ 8/5
gr. " "	... ...	... ...	1/9	1/- + 4	11/11	+ 4/-
INO-ANTIPEOL						
gr. Nozzled Tube	... ...	... ...	3/1	1/9 + 7	21/-	+ 7/-
gr. " "	... ...	... ...	1/9	1/- + 4	11/11	+ 4/-
TEROFAGOS						
of 50 ampoules	... ...	... ...	19/-	13/3½	159/7	None
10 "	... ...	... ...	4/3	3/-	35/8	None
5 "	... ...	... ...	2/6	1/9	21/-	None
TENSYL						
of 500 tablets	... ...	... ...	43/-	24/- + 8/-	288/-	+ 96/-
of 50 "	... ...	... ...	4/11	2/8½ + 11	32/4	+ 10/10
JAMES' BALM						
of approx. 2½ oz.	... ...	... ...	3/1½	1/11 + 7½	22/6	+ 7/6
" 1 oz.	... ...	... ...	1/7	11 + 4	11/3	+ 3/9

Carriage paid on all orders of 1 dozen or £1 and over.  
Terms : NETT, Monthly Account.

## NEW POWERFUL BACTERICIDE

# BRADOSOL

(Rideal-Walker coefficient 450)

# Non-irritant antiseptic for hospital and general use

## Effective in low concentrations

**Wounds and burns      Pre-operative hand and skin disinfection      Obstetrics and Gynaecology      Urology  
Dermatology      Gargle and Mouthwash      Disinfection of instruments, utensils and linen      Air disinfection**

Bradosol solutions are detergent and penetrate tissue surfaces, facilitating cleansing and the removal of grease

*Bradosol is  $\beta$ -phenoxy-ethyl-dimethyl-dodecyl ammonium bromide, a quaternary ammonium compound. It is supplied as a pleasantly perfumed 5% aqueous solution ready for dilution.*

Please apply for literature and sample

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# DISPENSING SUNDRIES



## HANG UP IN YOUR DISPENSARY

### DISPENSING BOTTLES

	1 oz.	2 oz.	3 oz.	4 oz.	6 oz.	8 oz.	10 oz.	12 oz.	16 oz.	20 oz.
WHITE FLINT FLATS STANDARD QUALITY IN CARTONS	Per Gross	15.9	18.3	17.4	18.9	21.1	24.3	29.4	37.6	51.1
U.G.B. WASHED AND STERILISED	5 Gross Assorted	14.9	15.3	16.6	17.3	19.1	24.9	27.6	35.5	48.1
	Per Gross	—	21.4	—	26.4	—	31.1	45.1	50.5	64.1
	3 Gross Assorted	—	30.1	—	34.5	—	37.1	43.1	57.6	61.1
RIBBED OVALS STANDARD QUALITY	Per Gross	14.3	14.3	14.3	19.4	21.1	21.9	27.6	30.9	52.4
Screw Caps if required	5 Gross Assorted	13.6	15.3	17.3	18.1	19.9	20.6	24.1	36.6	49.4
	Per Gross	3.4	3.4	3.7	3.7	3.9	4.1	—	—	—
BOW FRONTED PANELS U.G.B. WASHED AND STERILISED	Per Gross	37.1	30.1	31.6	35.1	37.6	40.1	—	45.6	42.1
Black Corkite Caps	5 Gross Assorted	25.1	27.4	27.4	32.6	35.1	38.1	—	57.6	74.1
VIALS	1 oz.	2 oz.	3 dr. (screw cap)	3 dr. (screw cap)	7/8 Per Gross	9.1. Per Gross (Rubber Caps)	TABLET TUBES	TABLET BOTTLES 25s. Baseline Caps Per Gross	13.6	16.1. 31.1.
	Per Gross	9.4	13.1	18.1	—	—	—	—	—	—
	3 Gross Assorted	9	13	13.3	—	—	—	—	—	—

### CORKS

STANDARD GREEN LEAF Nest	1	1	1	1	1	1	1	1	1	1
Per Gross	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
PERFECT SILVER LEAF Nest	1	1	1	1	1	1	1	1	1	1
Per Gross	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
CHEPPETTES	—	—	—	—	—	—	—	—	—	—
PER GROSS	—	—	—	—	—	—	—	—	—	—
CORRUGANZA	—	—	—	—	—	—	—	—	—	—
PER GROSS	—	—	—	—	—	—	—	—	—	—
LITTLE JOHN DRU	—	—	—	—	—	—	—	—	—	—
PER GROSS	—	—	—	—	—	—	—	—	—	—
MAGNESIA LITTLE	—	—	—	—	—	—	—	—	—	—
Per gross size 1/2 oz.	—	—	—	—	—	—	—	—	—	—
Glass JARS With Bakelite Caps	—	—	—	—	—	—	—	—	—	—
OPAL U.G.B.	Per Gross	—	—	—	—	—	—	—	—	—
WHITE FLINT	Per Gross	—	—	—	—	—	—	—	—	—

Your purchases of dispensing sundries in the course of a year may be anything up to £100. They may even be a good deal more. Why not get discount on this expenditure? Write now for details of our contract scheme.

### DISPENSING MEASURES

	2 dram	1 oz.	60.4	47.1	WEIGHTING BALANCES No. 50. A reliable and serviceable balance	4.0. 0.0
CONICAL Minim Graduations	Per Dozen	48.1	51.1	—	—	£11.11.0
CONICAL Drachms and Ounces Per Dozen	1 oz.	54.1	44.1	—	—	—
CUP-SHAPE Ounce Graduations	Per Dozen	80.1	20.1	40.1	—	£12.0.0

### FUNNELS, LOTION BOWLS, Etc.

	SPATULAS AND STIRRING RODS Per Dozen	WEIGHTS EXTRA Per set	FILTER PAPER, Etc.
FUNNELS	3" 4" 5" 5½" 6" 8"	SPATULAS Perplex 4 5" 6" 7" 8" 9" 10" 12"	Filter Paper Thin Weight per 100 sheets 18 18 27 30 31 35 40 51
Glass	doz 15.1 20.1 24.1 — 33.1 58.4	Perplex 4 3 6-10; 8 9 12 4 15 - 17; 18.9 25*	Thin Weight per 100 sheets 13 18 25 30 33 51
Egg Brain	— doz 34.8 — 42.1 52.1 —	Vulcanite — 5.6 — 7.4 — 10.1 —	TEST TUBES, 5 1/2" dia. 1 —
Polythene	— — — 27.1 — —	Steel 35 39 42 49 50 49.1 81.1 —	BUNSEN BURNERS Chromium plated, with positive on-and-off tap each 13.4
LOTION BOWLS	doz. — — — 15.4 25.4	Stainless Steel — 45 75.1 —	CHECK DUSTERS, 24" 24 doz 21 —
Egg Iron	— — — — —	Gumalite — — — 10.9 — 14.1	
KIDNEY TRAYS	— — — — 24.1 —	Glass — — — 3.6 — —	

### POSSARY and SUPPOSITORY MOULDS

	SUPPOSITORY 6-hole 12 hole	6-hole 12-hole	MORTARS AND PESTLES	OINTMENT SLABS
POSSARY	60 gr. ... 27 gr. 48 gr. ...	15 gr. ... 14.1 gr. ...	No. 4 4" 5" 6" 6½" 7" 8" 10" 12"	OINTMENT SLABS
	60 gr. ... 48 gr. ...	15 gr. ... 80 gr. ...	No. 5 5" 4" 2" 4" 6" 8" 10	Each ... 8" 10"
	All Brass Nickel Plated Conical Shape.		Each 5" 4" 6" 8" 11.6" 15.6" 25" 39" —	Each ... 4.6" 7.9"

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May, 1950

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With its attractive appearance and toffee-like flavour, Wander Brand Malt Extract and Cod Liver Oil is thoroughly enjoyed by children and adults.

*On the P.A.T.A.*

**Wholesale Prices:** 1 lb. Jars 18/9; 2 lb. Jars 35/-  
*Exempt from Purchase Tax*

**Wholesale Prices for 1 gross 1 lb. or equivalent:**  
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*Exempt from Purchase Tax*

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**NOTE—Also supplied if required with attractive labels bearing your own name, at competitive prices. Further details on request.**

Attractive showcards available

*For further details write to :*

**A. WANDER LTD.**

42 UPPER GROSVENOR STREET,  
GROSVENOR SQUARE,  
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# No Tricks

The Stergene sales organisation employs no tricks.

Maybe we're not smart enough.

Maybe we're plain dumb.

Maybe we just feel that straightforward, uncomplicated methods are good enough to sell a first class product.

So we *don't* give Stergene away.

We *don't* offer Stergene at cut prices.

We *don't* make conditions of sale.

We do give a good delivery service.

We even collect the empties—and credit you with a "handling allowance" upon the number returned.

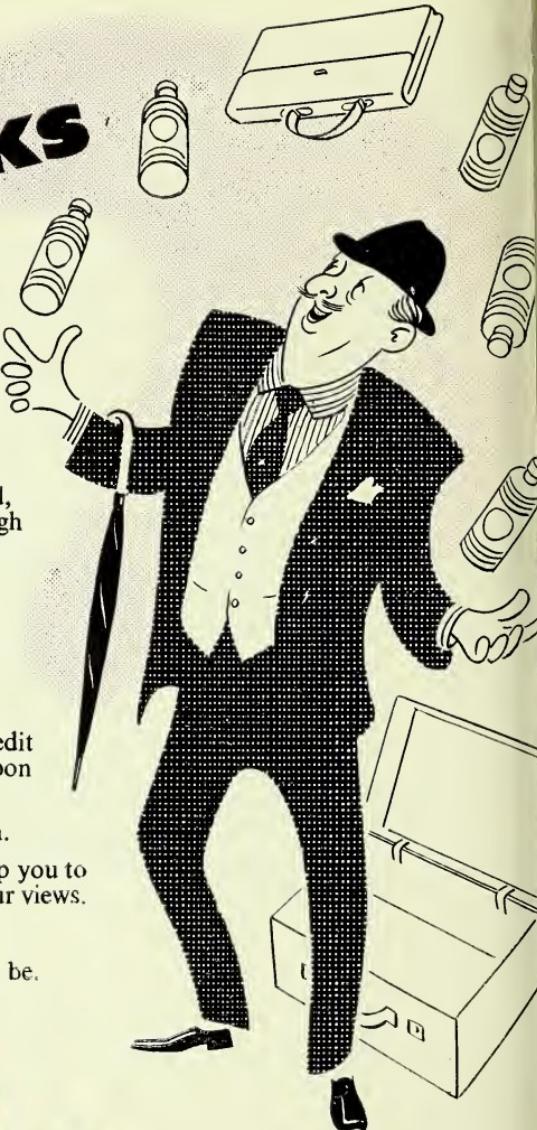
We offer a worth while profit margin.

And if there are any ways we can help you to sell more Stergene we'd welcome your views.

But no tricks.

We think that's the way you want it to be.

Are we right?

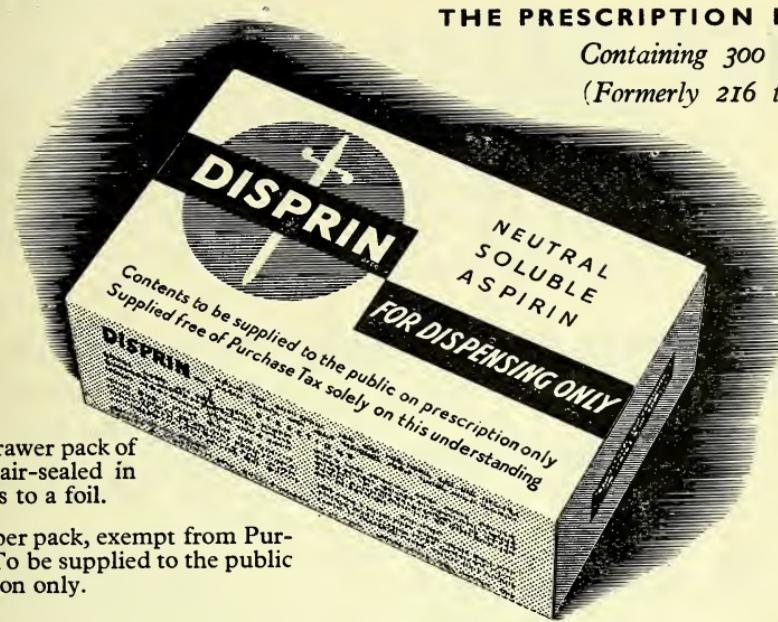


A PRODUCT OF  
DOMESTOS LIMITED,  
NEWCASTLE UPON TYNE.

# Disprin packed for every purpose

THE PRESCRIPTION PACK

Containing 300 tablets  
(Formerly 216 tablets)



**PACKING.** Drawer pack of 26 tablets, air-sealed in foil, 6 tablets to a foil.

**PRICE.** 10/- per pack, exempt from Purchase Tax. To be supplied to the public on prescription only.

## DISPRIN TERMS

**DISPRIN ORDERED ALONE.** 5% Trade Discount on orders value £2. Such orders may include all three Disprin packings.

**DISPRIN ORDERED WITH DETTOL PRODUCTS.** Any standard packing of Disprin can be added to existing carriage-paid quantity of Dettol products will also qualify for 5%.

**Discount of 2½% for payment within 14 days of invoice date.**

## THE POPULAR BOTTLE

Containing 26 tablets



**PACKING.** Display cartons of one dozen.  
**PRICE.** Trade price 13/10 per dozen.  
Purchase Tax 4/6 per dozen. Retail price (inc. tax) 2/- per bottle.

## THE HANDY FOLDER FOR POCKET OR HANDBAG

Containing 8 tablets

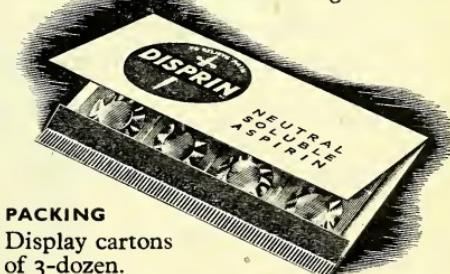


### PACKING

Display cartons of 3-dozen.

### PRICES

Standard Trade Price 5/2 per doz.  
Purchase Tax 1/8 per doz. Retail price (inc. tax) 9d per folder.



# GREY HAIR?

**THE ANSWER IS**

## INECTO-RAPID

- ★ *The best-known hair dye all over the world*
- ★ *Exactly reproduces nature's own colouring*
- ★ *Guaranteed permanent.*
- ★ *Unaffected by permanent waving*
- ★ *Clean and very simple to apply*

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YOUR USUAL WHOLESALER

Prices are as follows :—

	WHOLESALE	P.T.	RETAIL
Full-size outfit (4 pairs of bottles)	84/- doz.	84/-	17/6
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ESSENCE OF  
RENNET

RASPBERRY, STRAWBERRY,  
LEMON, ORANGE,  
VANILLA

1 OUNCE BOTTLES  
sufficient for 8 pints of Junket

**RETAIL**

**2/3**

PER BOTTLE

## JUNKET TABLETS

Each Tablet Sufficient to Junket  
Quart of Milk

Packed in Boxes of 12 Tubes

Each Tube contains 16 Tablets

Retail Price 1/3 per tube

## JUNKET POWDER

Packed in Boxes of 12 Tubes

Sufficient in each Tube to Junk  
16 Quarts of Milk

Retail Price 1/3 per tube

**SUPPLIES AVAILABLE**

THE

**Armour Laboratories**  
(ARMOUR AND COMPANY LTD.)

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# CLINITEST

TRADE MARK

**The unique one-minute test  
for detecting urine sugar**

*now made in Britain*

The rapidly increasing use of CLINITEST' (brand) for detecting urine-sugar, has made it necessary to establish manufacturing facilities in the British Isles. Heretofore, 'CLINITEST' has been imported from America.

This unique copper reduction test is based upon the same principles involved in the Benedict Test, but has all the reagents compressed into a single tablet. No external heating is required as the tablet generates its own heat. The complete test takes less than one minute. 'CLINITEST' has been approved by the Medical

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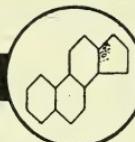
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# TABLET MAKING MACHINERY



**MANESTY  
F 3  
TABLET  
MACHINE**

OUTPUT  
85  
PER MIN.

TABLETS UP TO  $\frac{3}{4}$  DIAM.



**MANESTY  
HAND  
TABLET  
MACHINE**

OUTPUT  
100  
PER MIN.  
FOR TABLETS UP TO  $\frac{1}{2}$  DIAM.



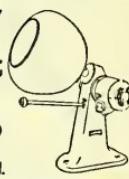
**MANESTY  
E 2  
TABLET  
MACHINE**

OUTPUT  
85  
PER MIN.  
FOR TABLETS UP TO  $\frac{1}{2}$  DIAM.



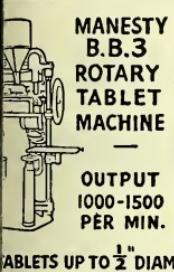
**MANESTY  
HAND  
COMPACT  
PRESS**

OUTPUT  
2000  
COMPACTS  
PER DAY



**MANESTY  
CP 2  
COATING  
PAN**

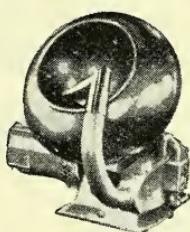
STANDARD  
SIZE  
30" DIAM.



**MANESTY  
B.B.3  
ROTARY  
TABLET  
MACHINE**

OUTPUT  
1000-1500  
PER MIN.

TABLETS UP TO  $\frac{1}{2}$  DIAM.



**'BCP2' BENCH COATING PAN**

with hot air blower

NOW PUBLISHED

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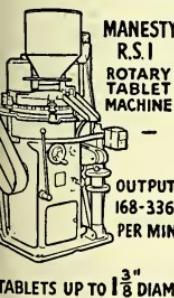
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**MANESTY  
N°2A  
TABLET  
MACHINE**

OUTPUT  
55-220  
PER MIN.

TABLETS UP TO  $\frac{1}{2}$  DIAM.



**MANESTY  
R.S.1  
ROTARY  
TABLET  
MACHINE**

OUTPUT  
168-336  
PER MIN.

TABLETS UP TO  $\frac{3}{8}$  DIAM.

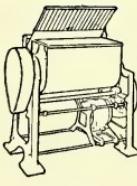


**MANESTY  
ROTORGRAN  
OSCILLATING  
GRANULATOR**

OUTPUT  
150-224  
LBS.  
PER HOUR.

**MANESTY  
MIXER**

CAPACITY  
100 LBS.  
OF POWDER



**MANESTY  
B 3  
ROTARY  
TABLET  
MACHINE**

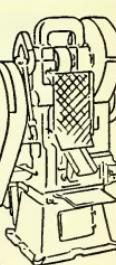
OUTPUT  
400-500  
PER MIN.



**MANESTY  
D 3  
ROTARY  
TABLET  
MACHINE**

OUTPUT  
300-350  
PER MIN.

TABLETS UP TO  $\frac{1}{2}$  DIAM.



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N°3  
TABLET  
MACHINE**

OUTPUT  
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TABLETS UP TO  $2\frac{1}{4}$  DIAM.

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Potter's Asthma Cigarettes .. .. .. .. .. ..	2/5	18/-	6/-
Potter's A.thma Smoking Mixture .. .. .. .. .. ..	1/21	8/6	2/10
Potter's Catarrh Pastilles .. .. .. .. .. ..	1/9	11/-	3/8
Potter's Stramonium Cigarettes .. .. .. .. .. ..	1/10	12/-	4/-
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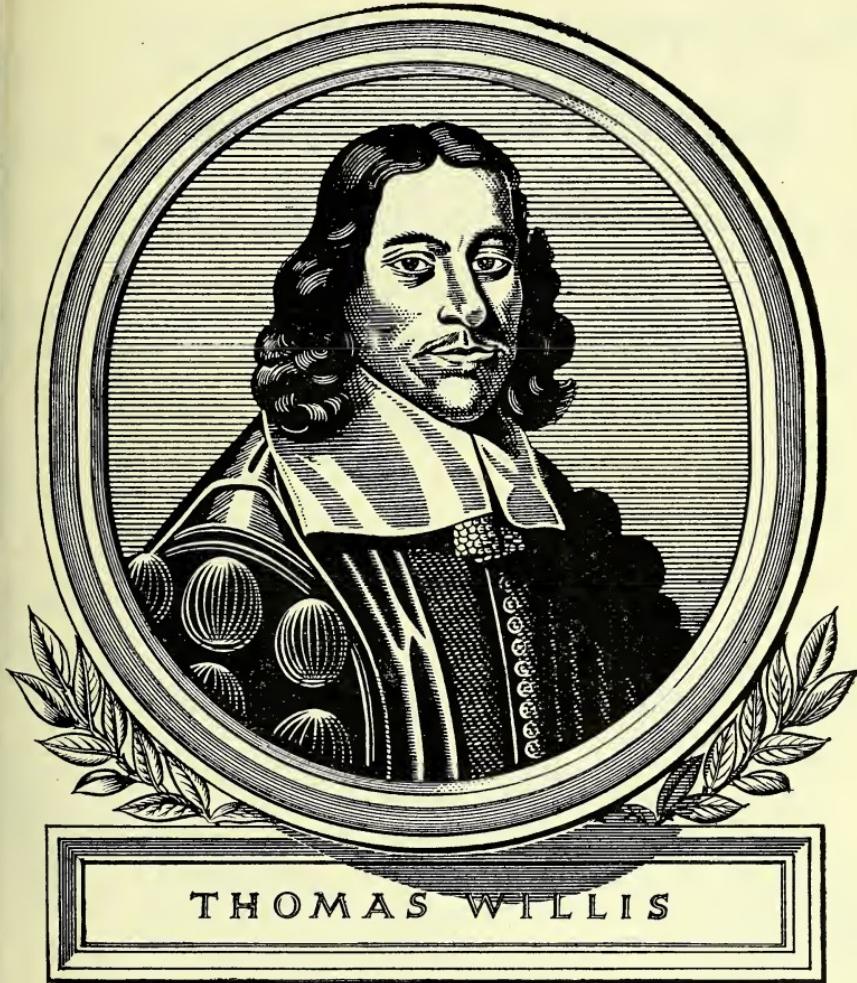
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1/7; 3/10; 6/4



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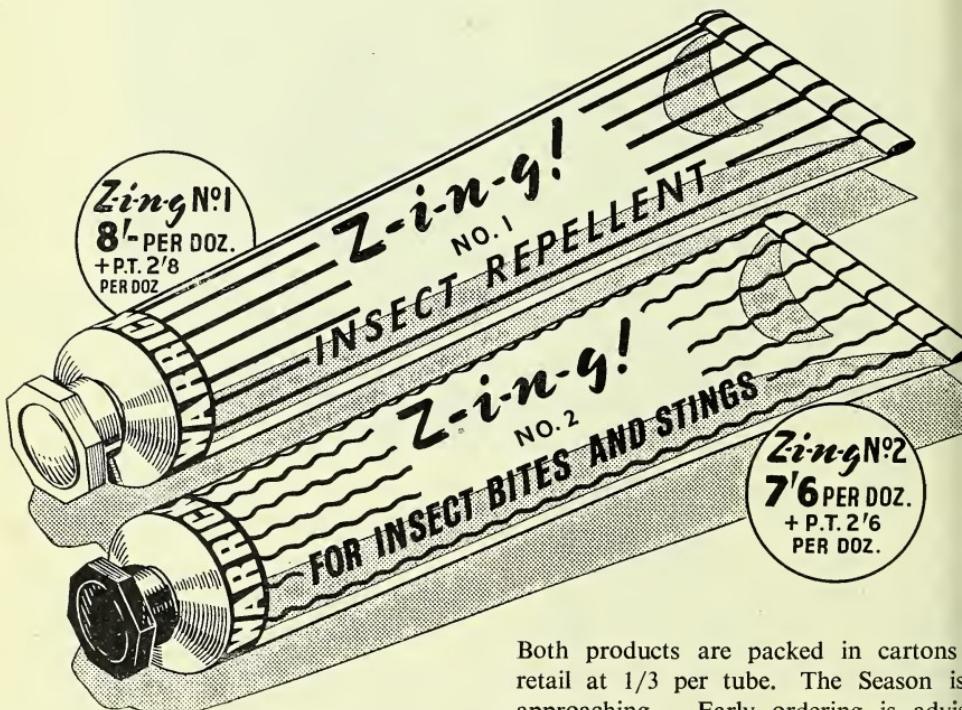
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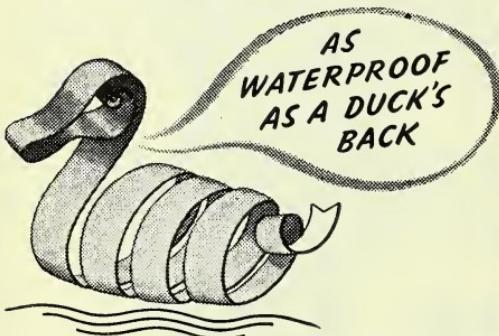
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This Deodoriser and Moth Repellent contains no naphtha  
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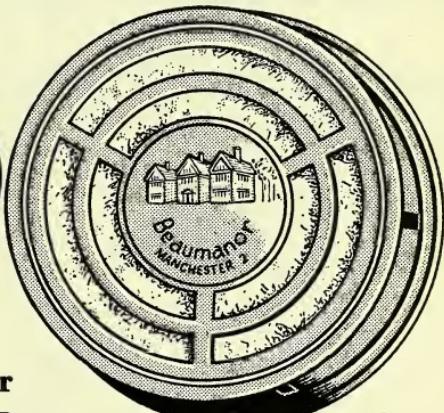
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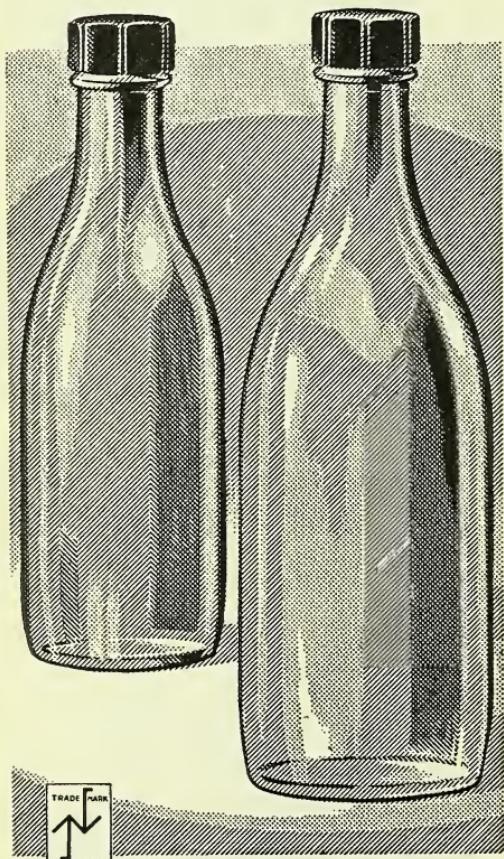


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state of *unbelievable* formity.



Boiled alive. . . .

The Nazi press had nothing on us. ruthlessly rip them from Spanish cork, boil, scrape, and it, then shut it in "hot-box." When thoroughly cowed

punch thousands of corks out of it. Then then subjected to a series of fiendish torture tapering, bevelling, sanding, notching,izing—even branding! If after all this still 1/63rd of an inch of individuality abides—off it goes to be ground up into products. Sometimes only 5 per cent of a batch survive to become corks of our Grand quality.

\* \* \*

If you feel as callous as we do about cork, want them to be absolutely alike in quality and size—just let us know, by letter or telephone, Armstrong Cork Co. Ltd. (Closure Division), Kingsbury, London, N.W.9. Tel: Colindale 5703. Scottish Branch: 5 Oswald Street, Glasgow. Tel: Central 5703.

FREE ON REQUEST. The handy Armstrong string of Standard Cork sizes shows at once what size you want—whether for dispensing or for ordering supplies. May we send you one?



## ARMSTRONG'S CORKS

CORKS • CROWN CORKS • MOULDED

# STOCK UP WITH THESE WELL-ADVERTISED LINES



## 'NEBRO' J20 Developing Tank

An important feature of this popular tank is the "two way" (both rotary and vertical) agitation which ensures even development free from air bells.

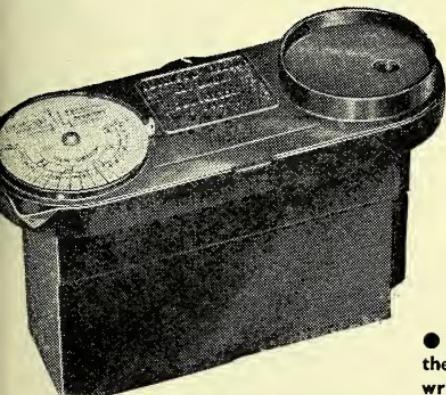
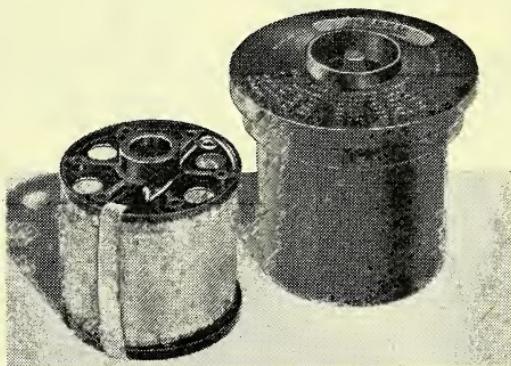
Great attention has been given to light trapping, quick pouring and proper thermometer entry. In black bakelite from moulds of outstanding craftsmanship, complete with calculating disc to indicate time and temperature when using standard Johnson developers, and instructions. Height 4 $\frac{1}{4}$ ", diameter 3 $\frac{7}{8}$ ".

Tank, complete	22/6	Spiral Film Holder	10/-
Body ...	8/-	Stirring Rod ...	1/-
Lid ...	5/6	Calculating Disc...	1/-

## 'NEBRO' ADJUSTABLE Apron Developing Tank

ideal for developing several films in a short time—the apron can be wiped down and dried after each using. Loading is very easy. Apron, which has dimples pressed into each keeps the layers of film apart. Except for loading the film into the apron all developing, and washing is carried out in daylight. Owners of a Nebro "Universal" Tank can convert it by purchasing the adjustable spool appropriate apron.

Tank, complete with Spool and Stirring Rod (Apron extra) ...	27/6
Adjustable Film Spool and Stirring Rod ...	15/6
Aprons only, Nos. 16, 20 or 27 (for roll films of these numbers)	10/6
each	



## 'NEBRO' 'CUT-PLATE' Developing Tank

The "CUT-PLATE" is an adjustable tank enabling from 2" x 2" to 4" x 5" of plates or cut films to be developed six at a time in daylight.

Sturdily made of hard black plastic, the tank has a built-in Time and Temperature Calculator and large funnel moulded into the lid; this aperture also admits a thermometer ... Price 50/- Stainless steel hangers for 9 x 12 cm. cut film 3/6 each; for 5" x 4" cut film 3/6 each.

- Have you had YOUR copy of the Nebro Catalogue? If not, write at once.

**EVILLE BROWN & CO. LTD**

Authors to the Photographic Trade. NEWMAN STREET LONDON, W.I.

available through these Provincial Wholesalers: SOUTHALL BROS. & BARCLAY (1935) LTD., BIRMINGHAM 5, PARKER & CO., LTD., BRADFORD. JAMES WOOLLEY SONS & CO., LTD., MANCHESTER

# Florine

2 PLY  
GLAMAPAK

PETAL-SOFT  
TISSUE  
HANKIES



Absorbent Petal Soft, New fold tissues, Improved Fold Boudoir, Bathroom or for travel use. Conveniently dispensed from specially constructed, attractively printed cartons designed for immediate single selection of coloured tissues without contamination. Each box contains 100 single 9" x 10" folded 4½" x 5". Obtainable in white only or some assorted tints and self colours

THE  
POCKET PAC

(shortly available)

Specially designed Dispenser Carton containing regular sized tissues (12 pulls) white only, 2½" x 5" for handbag, school and travel.

★ HANKIES also supplied with embossed hem-stitched borders in Cellophane Pack.

CARRIES FULL PROFIT MADE FOR WHOLESALER AND RETAILER

## FREEDER BROTHERS PAPER MILLS

BRIMSDOWN, ENFIELD, MIDDLESEX

Telephone : Howard 1847 (5 lines).

Telegrams : Sylkocrepe, Enfield, Mid-

## STANDARD SYNTHETICS L I M I T E D

*Actual distillers of Essential Oils*

*Manufacturers of Aromatics, Perfume  
Bases and Flavours.*

*We specialise in Cinnamon Bark Oil,  
Juniper Berry Oil, Winter-green Oil, Eucalyptol,  
French Lavender Oil, Terpineless Lemon Oil, Rose  
Perfumes, etc.*

**76 Glenthorn Rd., Barnes  
London - - S.W.13**

Telephone: Riverside 3616



## WEIGHING

The first months count most where baby's weight is concerned. Mothers, nurses, clinics and hospitals put their trust in SALTER.

**SALTER** *baby weighing*  
Established 1760

GEO. SALTER & CO. LTD., WEST BROMWICH



ADRENALIN  
CARMINE · CREOSOTE  
PAPAIN · PEPSIN  
PANCREATIN

PIPERAZINE  
DIASTASE · SAFFRON  
THEOPHYLLIN  
SULPHONAL

TERPENELESS  
ESSENTIAL OILS  
also ISOLATES:-  
CITRAL  
LINALOOL  
RHODINOL  
etc., etc.

ESSENTIAL  
OILS

ANISEED  
CAJUPUT  
CINNAMON BARK  
CORIANDER  
PINE  
(*Abies, Pumiliois*)



**PERFUME BASES**

A wealth of experience backs our ability  
to produce exacting floral odours and  
intricate bouquets. We cater for your  
special needs.

★ Write for samples and prices. ★

**CHAS. ZIMMERMANN & CO. LTD**

**DEGA WORKS, WALMGATE RD, PERIVALE, GREENFORD, MIDDX**

Phone : PERIVALE 9121 (4 Lines).

Grams : ACIDOLAN.GRENFORD-MIDDX

# PHOTOCHROME ROLL FILMS

*. . . the film with the outstanding middle tone gradation*

Photographers throughout the country have proved the astonishing flexibility of this new British Film.

- COATED IN BRITAIN     ● USUAL ROLL FILM SIZES
- 29 sch. FULLY ORTHOCHROMATIC
- ALWAYS FRESH FILM

## PRICE LIST · DELIVERED

Size	$\frac{1}{2}$ gross	1 gross	100
P27 - P29	£4.7.6 plus £2.18.4 tax	£8.12.9 plus £5.15.2 tax	£6.0.0 plus £4.0.0 tax
P20 - P62	£4.19.0, £3.6.0,,	£9.16.6,, £6.11.0,,	£6.16.6,, £4.11.0,,

UNIT	£10 parcel contains 50 P20; 24 P62; 15 P27
PARCELS	£20,,,, 100 P20; 48 P62; 30 P27

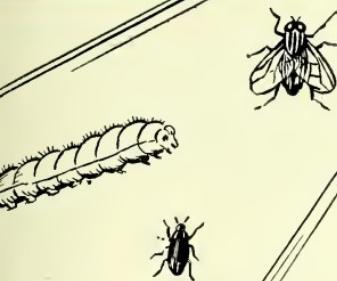
DELIVERY	P20 · P62 · P27	PROMPT DELIVERY FROM STOCK
P29 -	ONE TO TWO WEEKS	

RETAIL PRICES 8 exposure P27 - 2/5; P29 (6 exp.) - 2/5; P20 P62 - 2/

The AMATEUR PHOTOGRAPHER of May 3rd summarised its complete report on Photochrome Films as follows:—  
 “For all purposes for which a medium-fast film of moderately fine grain and without sensitivity to red, is suitable, this new film should prove in all respects satisfactory.”

**B.C.M./PHOTOCAM LONDON, W.C.I**  
**Ramsgate Works · 2A Park Road · Ramsgate**

*The Ideal  
D.D.T. pack  
for House &  
Garden*



# AMOGAS D.D.T.

*insect Powder*

oz. 1/- Retail : 7/3 per dozen Trade

oz. 1/8 Retail : 12/6 per dozen Trade

Manufacturers:  
**ORTON & ROSS LTD., HUDDERSFIELD**

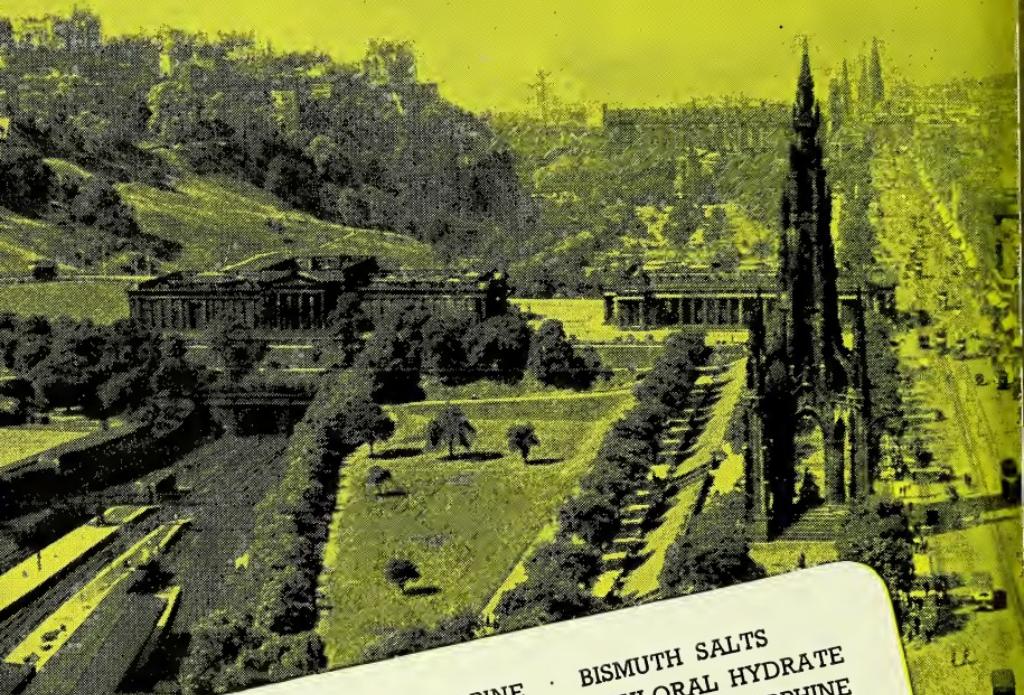


## THE NEW PUFFERPACK—

Best and most economical method of distributing the powder evenly in any direction, even in the most awkward places.



# Famous the world over



ALOIN . ATROPINE . BISMUTH SALTS  
CANTHARIDIN . CAPSICIN . CHLORAL HYDRATE  
CHLOROFORM . CODEINE . DIACETYLMORPHINE  
EPHEDRINE . ERGOTIN . ETHYLMORPHINE  
GINGERIN . HOMATROPINE . HYOSCYAMINE  
MORPHINE . PAPAVERINE . PHYSOSTIGMINE  
PILOCARPINE . SANTONIN . STRYCHNINE



BLANDFIELD CHEMICAL WORKS - EDINBURGH

Manufactured in Edinburgh by

**T. & H. SMITH LTD**

at Blandfield Chemical Works

INFANT



The essential needs of the nation still demand priority. To those planning ahead we invite enquiries for Glass Container Requirements.

*Wholesale &  
Export Only*

**LAX & SHAW** Ltd

REGD. OFFICES: Scott House 69 South Accommodation Rd., LEEDS, 10  
Telephone: 21568 (2 lines) Telegrams Feeders: (Phone) Leeds 10

London Office:—

29 Ludgate Hill, E.C.4

Telephone: CITY 7170



**Addis<sup>REGD.</sup>**  
**BEAUTY BRUSH**

gets big boost  
by leading  
mannequins!



Frederick Starke's lovely Julia Daniell is one of the mannequins sponsoring the Addis Beauty Brush in national magazines

### Great campaign means year-round sales

Yes, London's loveliest mannequins are sponsoring the Addis Beauty Brush in big national magazine advertisements — which your customers are going to see and absorb. They'll be struck by Beauty Brush loveliness, impressed by its efficiency, amazed at its low price — and they'll buy! And demand is going to stay up — all the year round! Stock up with the Addis Beauty Brush now! 12/6 retail.

It's lovely,  
it's efficient,  
it sells on sight

Stock and  
display the

**Addis<sup>REGD.</sup>**  
**BEAUTY BRUSH**

all the  
year round





## FOUR REASONS WHY SCOTT'S BABY CEREAL TWIN-PACK WILL HAVE BIG SALES

1. Modern medical teaching advises mothers to use different cereals at alternate feeds during weaning and mixed feeding.
2. Scott's new Twin-Pack—*the first packet ever to contain two separate baby cereals side by side*—helps mothers to follow this advice. It is simple, convenient. Provides two cereals for the price of one.
3. A forceful advertising campaign will promote Scott's Twin-Pack. Over 156 million advertisements for the Twin-Pack will appear in the National Press this year.
4. Doctors already are recommending the Twin-Pack. Obviously a strongly growing demand will be encountered.  
Stocks of Scott's Baby Cereal Twin-Pack are now available at most Wholesalers, packed 2 dozen 8 oz. packets to the case.

***It's new!***

**SCOTT'S BABY CEREAL TWIN-PACK**

A. & R. SCOTT LTD., COLINTON, EDINBURGH

# OINTMENT MILLS

## *Super Speedy Mill*

IN REGULAR USE ALL OVER THE WORLD

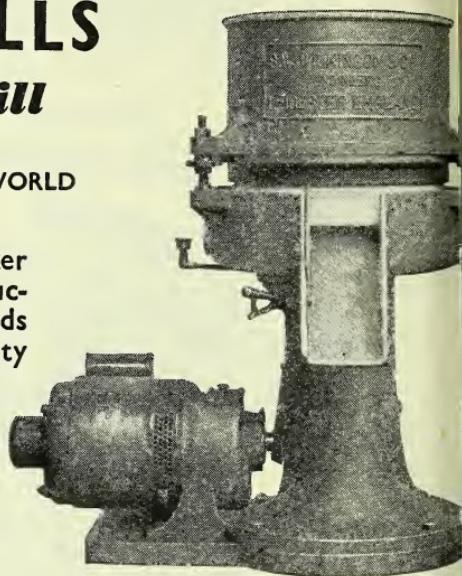
THIS Machine is a combined Mixer and Grinder and is used very successfully in the production of all kinds of Ointments, Tooth Pastes, Beauty Creams, Patent Foods, etc.

*Each Machine incorporates Thirty Years' Accumulated Experience*

**S. W. WILKINSON & CO. LTD.,**

*Chemical Engineers and Specialists in Pharmaceutical Machinery*

WESTERN ROAD - LEICESTER



# Worth selling!

FENOLIN FLUID FOR WHOOPING COUGH

ELDON Vaporiser

P.A.T.A.

Licoricine FOR COUGHS AND COLDS

HALL FORSTER & CO. LTD., NEWCASTLE UPON TYNE

**D & P**  
**24-HOUR SERVICE**

*Why suffer poor quality and delays this season. Our work guaranteed including :*  
**ENLARGING, COPYING, COLOURING, etc.**

*Sample order executed free*

**LOUDENS**  
**27 CENTRAL DRIVE, BLACKPOOL**

# ROURA & FORGAS LIMITED

Sole Sterling Area Suppliers of

## **ITALIAN QUICKSILVER**

HANOVER HOUSE, 73/78 HIGH HOLBORN, LONDON, W.C.

Telephone Nos. HOLborn 0517/9

The  
**Alka-Seltzer**  
 animals  
 are busy  
 again  
 this summer!



IT

IT

IT

E they come again!

Seltzer's popular team

of little creatures have

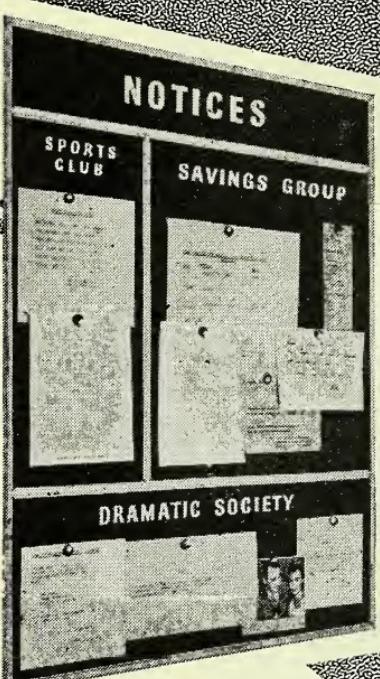
had to push sales up and

up during the last two years.



Now they are back for the summer season in a bright and breezy selling campaign in the National dailies, Sundays, provincial dailies and weeklies and in the leading popular magazines. Holiday makers will welcome the rapid relief that Alka-Seltzer brings from indigestion, headaches and summer colds. See that your stocks are ready for this special summer sales drive.

**Send for Alka-Seltzer's New sales-making Showcard. Trade price list and details of display discounts available from DON S. MOMAND LTD., 57 Albany St., London, N.W.1 Sole Distributors for Miles Laboratories Ltd., Bridgend, South Wales**



**a good  
saver  
is a good  
worker**

**Have YOU got a  
staff savings group?**

Starting a Staff Savings Group is a simple process. All the information, equipment and publicity material you require will be gladly sent free of charge on application to your Local Savings Committee or to the National Savings Committee, 39 Hyde Park Gate, London, S.W.7.

*Issued by the National Savings Committee*

**"SURCO"**  
RELIABLE  
**ELASTIC HOSIER**  
SEAMED AND SEAMLESS  
**SURGICAL BELTS**  
**TRUSSES AND SUNDRIES**

Over 50 years' service of  
everything Surgical

**SURGICAL HOSIERY CO. LTD**

Russell Street - NOTTINGHAM  
Telephone No. 75903 Telegrams: Surgical Nott

**LABELS**

Just 1,000 to try out a new preparation, or larger quantities for a big sale, plain letterpress or lithographed in black or many colours

CONSULT  
**TOWNSEENDS**  
THE LABEL EXPERTS  
**EXETER**

# Fennings' home remedies

WIDELY KNOWN . . .

USED FOR 90 YEARS . . .

EXTENSIVELY ADVERTISED

Famous for over 90 years, Fennings' home remedies have now become a household word. Their well established reputation for reliability has created a constant demand. See that your shelves are stocked with :—

● **FENNINGS' CHILDREN'S COOLING POWDERS**

Retail at 1/6 and 3/6 and in show packets of 100's and 240's

● **FENNINGS' LITTLE HEALERS**

For Coughs, Colds, Bronchitis, etc., 1/6 and 3/6. Also 7/- per carton of 12 packets, retailing at 7d. each

● **FENNINGS' RHEUMATIC TABLETS**

Retail price 2/6 for carton of 45 tablets

They sell readily,  
Throughout the Year!

Order through your usual wholesalers or if in difficulty, write to:—

**ALFRED FENNINGS, HORSHAM, SUSSEX**

NATIONALLY  
ADVERTISED

# SCRAM

THE CLEAN METHOD



## THE BEST REMEDY AGAINST MICE

NO BAIT • NO TRAPS • NO BODIES  
OVER 1,000,000 PACKETS SOLD YEARLY

I DOZ. DISPLAY BOX 8/9

3 Doz. Display Box 25/6

RETAIL ... 1/- PER PACKET

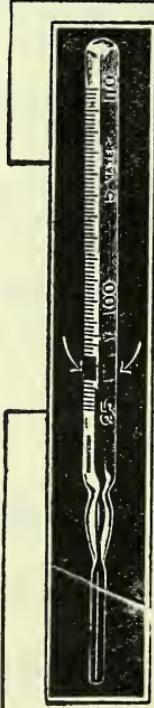
Order from your wholesaler or direct:

SCRAM PRODUCTS LTD., DARTMOUTH PARK HILL, LONDON, N.W.

C. Olley  
& Sons Ltd.  
EST. 1844

**CORKS,  
STOPPERS,  
ETC.**

Telephone CAMPERDOWN STREET  
LONDON, E.I. Royal 4922/3



THE  
“MATER”  
CLINICAL REC  
The position of the Mercury column is at o  
perfectly plain. Red markings above 95

ALL TYPES OF  
CLINICAL  
AND OTHER  
THERMOMETERS

PERKEN, SON & CO. LTD.  
(ESTABLISHED 1852)

8 HATTON GARDEN  
LONDON, E.C.I

Telephone : 0724 Holborn  
Telegrams ;  
“Optimus, Smith, London”  
Wholesale Agents for Clinical  
Thermometers :

FASSETT & JOHNSON, LTD.  
86 Clerkenwell Rd., London, E.C.1



MCO Atomisers and Sprays differ from types general use in that each model is a Scientific instrument specially designed to handle all types of drug compounds without the necessity to adjust the nozzle of the instrument in any way.

Each instrument is manufactured and assembled thematically exact limits thereby assuring good performance.

Materials of the finest quality only are used and components in direct contact with fluids are of pure nickel, which is impervious to every substance used in medical prescriptions.

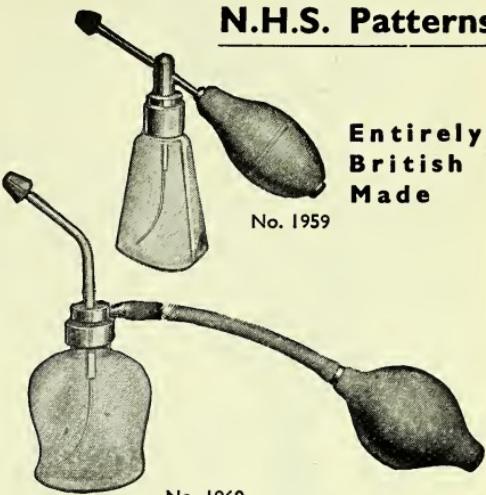
All components are heavily chromium plated.

All SAMCO models are pressure operated, thus giving complete atomisation.

## N.H.S. Patterns

Entirely  
British  
Made

No. 1959



Supplies available from your usual wholesaler . . .

AL MANUFACTURERS

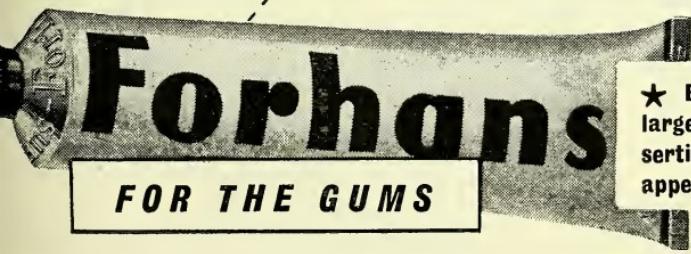
EUSTON 1757 & 5514

# S. MURRAY & Co. Ltd.

45 ST. PANCRAS WAY . . . LONDON . . . N.W.1

"most loss  
of teeth is  
due to  
*neglected*  
gums"

This challenging statement forms the background of Forhan's 1950 advertising. Forhan's, through its special formula, preserves the gums, and so protects the teeth. Care for one is care for the other, so every user of Forhan's gets a double chance. Millions will see the new Forhan's advertising and will find it hard to resist this appeal to their reason and their desire for natural healthy teeth. Stock up with Forhan's now. Don't forget that larger sales of Forhan's, with its generous trading terms, means a double chance for you, too.



★ Big new advertising  
larger spaces, more in-  
sertions, over 230,000,000  
appearances.

FORHAN'S LTD. 86 CLERKENWELL ROAD, LONDON, E.C.1.

## STORAGE MADE SIMPLE

**"SECO"**

## STEEL STORAGE EQUIPMENT

## FOR FACTORIES AND STORES

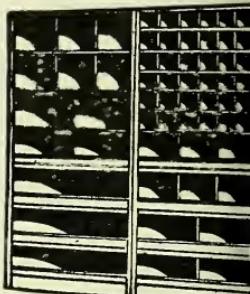
SECO Steel Equipment is suitable for all storage requirements, giving maximum storage capacity in the minimum floor space. A SECO Standard Unit is available to suit your every storage need. All units can be easily assembled with a screwdriver and spanner by unskilled labour on site. We also undertake the production and installation of storage equipment to customers' own specifications. The illustrations show a few standard units from the SECO Range. Send for List C.D.

**The STEEL EQUIPMENT CO., LTD**

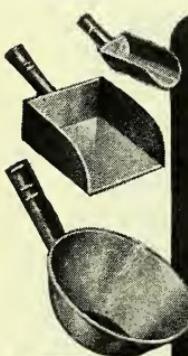
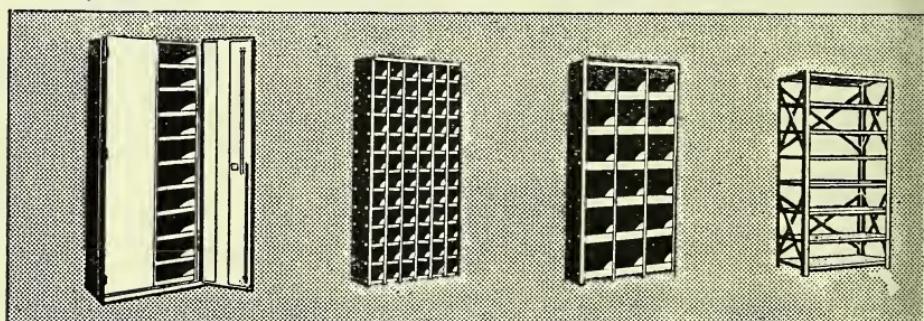
Greets Green, West Bromwich, Staffs.

Phone: TIPTON 1137-8-9

Grams: Equipit, West Bromwich



UNIT No. 950/I

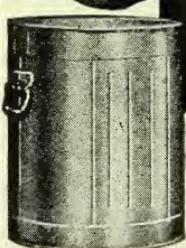
**WEBSTER'S**

## STAINLESS STEELWARE

Specialists in modern equipment for manufacturers, i.e., Funnels, Buckets, Jugs, Mixing Containers, Measures, Percolators, Bogies, etc., etc.

Suppliers of Stainless Steel utensils, at prices which enable the user to employ them in place of other metals as an economical proposition.

The use of Stainless Steel equipment, designed on modern principles, enables overhead costs to be reduced and makes for more convenient and better working conditions.



**ISAAC WEBSTER & SONS, LTD.**  
ABBEY WORKS, KIRKSTALL, LEEDS.  
Phone: 51580 Leeds. Grams: Isaac Webster, Kirkstall

**Surgical Chiropod**

Most of the training necessary to qualify for a Diploma in Chiropody can now be taken at home by specialised correspondence lessons. Fullest particulars of how to enter this highly-paid profession from:

**SCHOOL OF SURGICAL CHIROPODY**

(Dept. CD)

LEATHERHEAD, SURREY

**"RODINE"**  
RAPID RAT REMOVERAlways in demand  
T. HARLEY LTD., PERTH, SCOTLAND

**"Hobson's Choice"**  
PLASTER POWDERS  
FOR CORNS

Feet Plasters & Powders popular remedy gain success weekly. W. advertising assured demand. Have you a Retail price? Plaster Powders 1/- d. Comb. HOBSON TR. & CO., LTD. UNION HOUSE, L.

# Original Display Idea increases Chemist's Sales

"I took a look round my shop the day. And I saw something I hadn't really noticed before. My counter and shelves were full of displays that weren't necessary! and it's probably the same in your shop, too. We chemists clutter up our shops with displays of day-to-day lines which our customers would ask for anyway — because they don't need a reminder.

## Money making idea

That's how I got my idea. I realised that now, more than ever, the public is looking for *quality and value* — and I was



looking for extra *profit*. So I looked around for a line which my customers needed, but perhaps wouldn't ask for automatically. And I chose Ibcoll, the all purpose germicide and disinfectant. Why? Well, Ibcoll certainly has first-class quality — leading hospitals wouldn't use it otherwise; as for value, I know from personal experience that Ibcoll is so concentrated it goes much further than ordinary fluids, and it's so reasonably priced. It certainly brings me extra profit because it's a heavily advertised line and my customers ask for a bottle as soon as they see the prominent display on my counter."

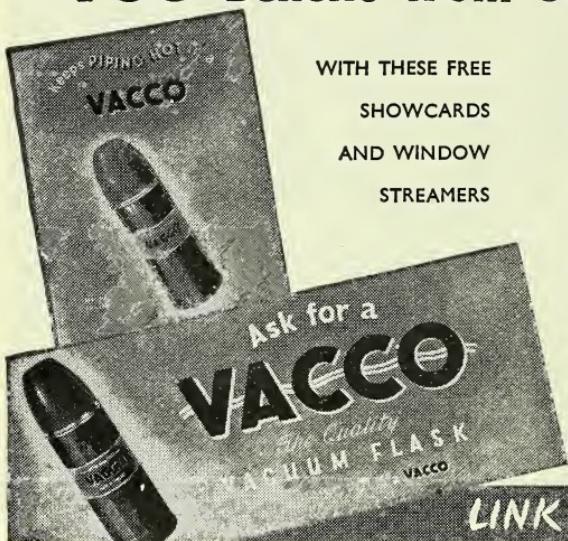
★ ★ ★ ★

Why not help yourself to this regular *extra* income by giving Ibcoll display priority in *your* shop?



**HERE IT IS!** Ibcoll comes in these handy, attractive display cartons containing  $\frac{1}{2}$  doz. 2/- economy size or 1 doz. 1/3d. size. For the little space they take up these cartons will yield you handsome, regular profits. If you have supply difficulties, write to Ibbetson, Barking, Essex.

# WE do the Advertising YOU benefit from Selling



WITH THESE FREE  
SHOWCARDS  
AND WINDOW  
STREAMERS

VACCO Vacuum Flask advertising to over 14,000,000 people monthly creates widespread demand. Divert demand to your shop with these striking colour displays, free to every stockist. Details and terms from Vacco Sales Office, Grosvenor Gardens House, Grosvenor Gardens, S.W.1. Tel: Victoria 87

# VACCO

The QUALITY Vacuum

LINK UP AND SELL!

## THE FLUID

AGITATOR-EMULSIFIER  
LABORATORY MODEL SL-A

All Stainless Steel

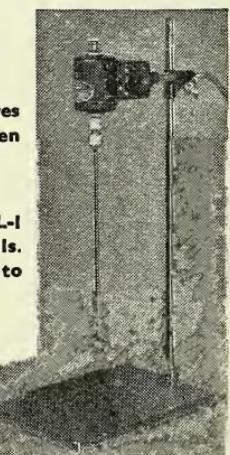
Contact with Fluid

\*

Built-In Control gives speed variation between 20 and 2000 r.p.m.

\*

Also larger models. SL-I for vessels up to 5 gallons. and S.C. for vessels up to 500 gallons



IMMEDIATE  
DELIVERY

FLUID EQUIPMENT CO. LTD.  
(Dept. S.D.) 83 Seafield Road, London, N.11  
Phone : ENT 2565

FOR DESTROYING RATS and HALLER'S EXTRACT OF SQUIRREL is always in demand as it is a standard product, controlled by Bio-assay

For the destruction of Beetles, Cockroaches, Crickets, etc.

USE

**"DANZO BEETLE POWDER"**

**"CADOG"**

Parasiticide and Insecticide in liquid form destroys all kinds of noxious insects

Bugs, Lice, Fleas, Moths, etc.

Address all enquiries for preparations for destruction of Domestic Pests to :-

**HALLER LABORATORIES, LTD.**  
325, BOROUGH HIGH STREET, LONDON, S.E.1

DAILY MAIL  
DAILY EXPRESS  
DAILY MIRROR  
DAILY HERALD  
NEWS CHRONICLE

# Hiltone's advertising



**.. steps out  
to step up sales**

This year the famous slogan "As light as you like . . . and no lighter" will be seen by millions of women—press advertising in the national dailies and women's magazines will be bigger-than-ever. It will explain how Hiltone brings glamour to the hair by brightening and lightening it—yet leaves it so natural-looking. This means bigger sales for you. So stock Hiltone, display it—you'll sell it.

# HILTONE

AS LIGHT AS YOU LIKE . . . AND NO LIGHTER

COUNTY PERFUMERY CO. LTD., STANMORE, MIDDLESEX



AND DRUGGIST  
ELEMENT

August 19,

## WHY MISS SALES?

Satisfy  
all needs  
and suit  
every  
Pocket



MADE WITH FINEST MATERIALS.  
SOFT KNITTED COVERING WITH  
HIGHLY ABSORBENT, BEAUTIFULLY SOFT.

HYGIENIC, ECON

"ANITA"—All Wool, soft knitted covering with  
Reg. Size 1 Trade 18/9 Retail 2/1 pack  
" " 2 per 22/6 " 2/6  
" " 3 gross 27/- " 3/-  
" " 4 33/- " 3/8

"SOLUCEL"—Soluble Cellulose Pad, with loop  
Reg. Trade 16/1½ Retail 1/9½

"COTOCEL"—Cotton Wool with highly absorbent  
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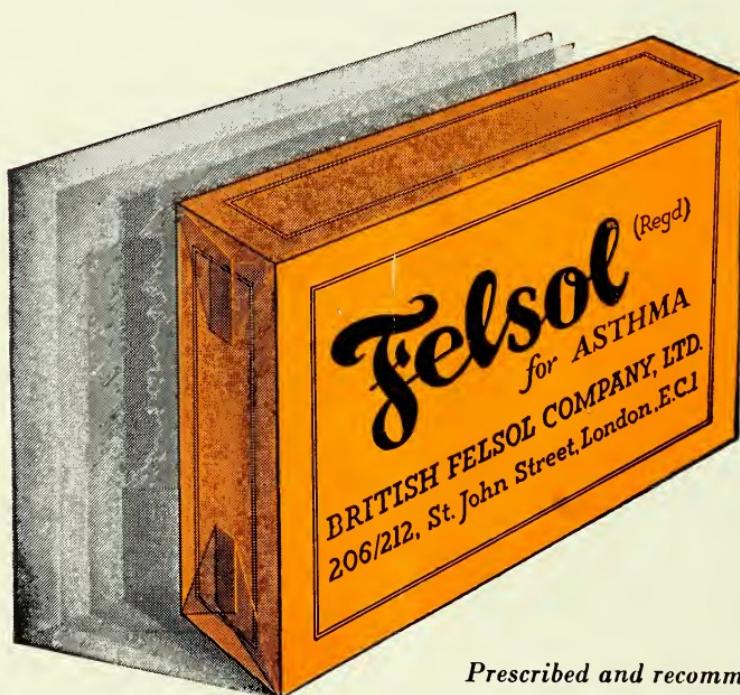
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